INSTALLER:
Leave this manual with the appliance.

CONSUMER:
Retain this manual for future reference.

WARNING: If the information in these instructions is not followed exactly a fire or explosion may result causing property damage, personal injury or death.

FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapours and liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS

- **Do not try to light any appliance.**
- **Do not touch any electrical Switch.**
- **Do not use any phone in your building.**
- **Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions.**
- **If you cannot reach your gas supplier call the fire department.**

Installation and service must be performed by a qualified installer, service agency or the gas supplier.

This appliance may be installed in an aftermarket permanently located, manufactured home (USA only) or mobile home, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases unless a certified kit is used.

This appliance is suitable for installation in a bedroom or bed sitting room.

c LC us

We endorse NFI NATIONAL FIREPLACE INSTITUTE A CERTIFICATION AGENCY

PACIFIC ENERGY

SERIAL #

BRISTOL & BEDFORD INSTALLATION AND OPERATING INSTRUCTIONS

MODEL: BRISTOL / BEDFORD

SERIES: B

DIRECT VENT GAS INSERTS

Important Note for the Commonwealth of Massachusetts:

From Massachusetts Rules and Regulations 248 CMR 5.08:

(a) For all side wall horizontally vented gas fuelled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than seven (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied.

1. INSTALLATION OF CARBON MONOXIDE DETECTORS. At the time of installation of the side wall horizontal vented gas fuelled equipment, the installing plumber or gas fitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed, in addition, the installing plumber or gas fitter shall observe that a battery operated or hard-wired carbon monoxide detector with an alarm is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fuelled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard-wired carbon monoxide detectors.

a. In the event that the side wall horizontally vented gas fuelled equipment is installed in a crawl space or an attic, the hard-wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.

b. In the event that the requirements of this subdivision cannot be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

2. APPROVED CARBON MONOXIDE DETECTORS. Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed as IAS certified.

3. SIGNAGE. A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fuelled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) inch in size, "GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS".

4. INSPECTION. The state or local gas inspector of the side wall horizontally vented gas fuelled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.089(2)(a) 1 through 4.

(b) EXEMPTIONS. The following equipment is exempt from 248 CMR 5.089(2)(a) 1 through 4.
1. The equipment listed in Chapter 10 entitled "Equipment Not Required To Be Vented" in the most current edition of NFPA 54 as adopted by the Board; and
2. Product Approved side wall horizontal vented gas fuelled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

(c) MANUFACTURER REQUIREMENTS - -- GAS EQUIPMENT VENTING SYSTEM PROVIDED. When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:
1. Detailed instructions for the installation of the venting system design or the venting system components; and
2. A complete parts list for the venting system design or venting system.

(d) MANUFACTURER REQUIREMENTS - -- GAS EQUIPMENT VENTING SYSTEM NOT PROVIDED. When the manufacturer of a Product Approved side wall horizontally vented gas fuelled equipment does not provide the parts for venting the fuel gases, but identifies "special venting systems", the following requirements shall be satisfied by the manufacturer.
1. The referenced "special venting system" instructions shall be included with the appliance or equipment installation instructions; and
2. The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

(e)) A copy of all installation instructions for all Product Approved side wall horizontally vented gas fuelled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

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NATIONAL FIREPLACE INSTITUTE NFI CERTIFIED www.nficertified.org

We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

Caution

FOR YOUR SAFETY - Do not install or operate your Pacific Energy appliance without first reading and understanding this manual. Any installation or operational deviation from the following instructions voids the Pacific Energy Warranty and may prove hazardous.

This appliance and its individual shut off valve must be disconnected from gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5 kPa).

This appliance must be isolated from the gas supply piping system by closing its individual manual shut off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5 kPa).

Do not use the fireplace if any part has been under water. Immediately call a qualified service technician to inspect the fireplace and to replace any part of the control system and any gas control which has been under water.

This unit must be installed with a Burner Set, Panel Set, and Surround Kit component.

This fireplace is equipped with a micro mesh safety screen for your protection and must be installed with the unit. Removal of the safety screen will cause the fireplace to become a burn hazard.

⚠ DANGER

HOT GLASS WILL CAUSE BURNS.

DO NOT TOUCH GLASS UNTIL COOLED.

NEVER ALLOW CHILDREN TO TOUCH GLASS.

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with the appliance and shall be installed for the protection of children and other at-risk individuals.

- Due to high temperatures, this gas appliance should be located out of traffic and away from furniture and draperies.

- Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burns or clothing ignition.

- Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces.

- Clothing or other flammable material should not be placed on or near the appliance.

- A barrier designed to reduce the risk of burns from the hot viewing glass is provided with the Surround Kit component and shall be installed.

- If the barrier becomes damaged, the barrier shall be replaced with the manufacturers barrier for this appliance.

- Any grill, panel or door removed for servicing the unit must be replaced prior to operating.

- Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.

- This appliance must not be connected to a chimney flue serving a separate solid fuel burning appliance.

- It is our policy that no responsibility is assumed by the Company or by any of its employees or representatives for any damages caused by an inoperable, inadequate, or unsafe condition which is the result, either directly or indirectly, of any improper operation or installation procedures.

Congratulations on your purchase of a Pacific Energy Gas Appliance.

Your fireplace has been professionally installed by:

Dealer name: _____

Phone Number:_____

If you discover any problems with your gas appliance contact your dealer immediately to have the unit repaired.

Caution: Do not attempt to repair the fireplace because you may cause injury to yourself or others, and risk causing damage to the unit.

Before operating your appliance carefully read this manual and pay close attention to all Safety Warnings. The manual contains important information on the unit's safe operation and maintenance.

First Fire

When lit for the first time, the fireplace will emit a slight odour for a couple of hours. This is due to the curing of paints, sealants and lubricants used in the manufacturing process. This condition is temporary. Open doors and windows to ventilate area. Odour caused by the curing process may cause discomfort to some individuals.

It is normal for fireplaces fabricated of steel to give off some expansion and/or contraction noises during the start up or cool down cycle. Similar noises are found with your furnace heat exchanger or cook stove oven.

NOTE: Fireplace may take up to 30 seconds to ignite each time the "ON" button has been selected

System Description

The Proflame2 Remote Control System consists of two elements:

1. Proflame2 Transmitter.
2. Proflame2 Integrated Fireplace Control (IFC) board and a wiring harness to connect the IFC to the gas valve and stepper motor.

Transmitter (Remote Control with LCD Display)

The Proflame2 Transmitter uses a streamline design with a simple button layout and informative LCD display (Fig. 1). The transmitter is powered by 3 AAA type batteries. A Mode key is provided to Index between the features and a Thermostat key is used to turn on/off or index through thermostat functions (Fig. 1 & 2).

Figure 1: Proflame Transmitter

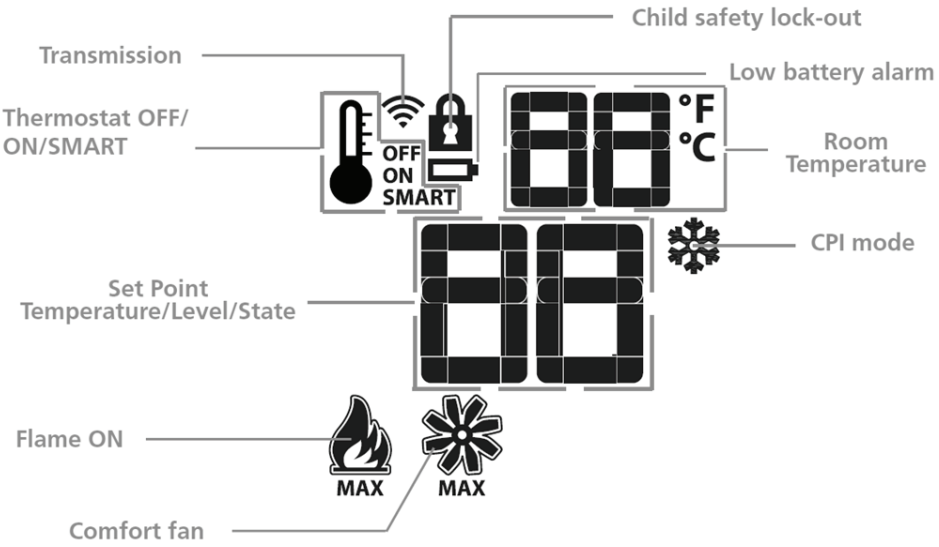


Figure 2: Transmitter LCD display

IFC Module

The Proflame2 Integrated Fireplace Control (IFC) module (Fig. 3) is a device that allows automatic ignition and pilot flame supervision, and commands the functions of the hearth Heater. It's configured to control the ON/OFF main burner operation, giving the choice of both IPI (intermittent pilot ignition), and CPI (continuous pilot ignition) modes. The Proflame2 IFC module controls and connects directly to the pilot assembly and the automatic valve using low electric power.

The IFC module can be powered by both an AC power supply, and battery pack for back up. The Proflame2 offers the added ability to control the comfort fan speed from OFF through six (6) speeds, a remotely actuated auxiliary outlet and a dimmable light outlet. The external batteries can provide DC power to the IFC allowing the batteries to be used only when line power is interrupted or lost, and if the Heater does not use a combustion fan

OPERATING PROCEDURE

Initializing the system for the first time.

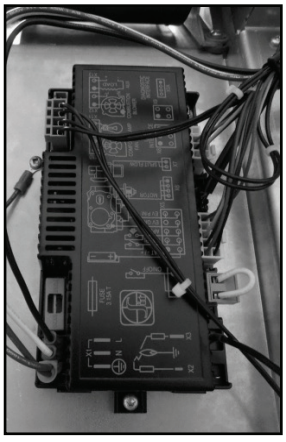
1. Install 4 AA batteries into the battery bay (Fig. 4) located on the rear side behind the surround below the firebox. Install the ON/OFF switch cover (Fig. 5) over top of the battery bay. Make sure that the selection switch is on the "Remote" setting.

2. Install 3 AAA batteries into the Proflame2 Remote Transmitter (Fig. 1).

3. Plug the power cord into the Brentwood/Broadway and open the gas supply line.

4. Insert a straightened paper clip into the opening marked "PRG" of the ON/OFF battery bay cover (Fig. 4 & 5) and press the program button once. The module will beep 3 times indicating that it is ready to synchronize with a remote transmitter.

5. On the remote transmitter, push the power on button once. The remote transmitter will beep 4 times to indicate that the remote transmitter and the control module are now synchronized. The remote transmitter is now ready to use.



3. IFC (integrated fireplace control) module.

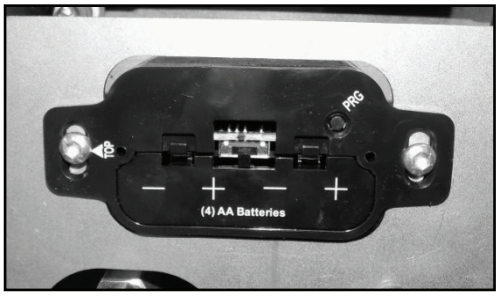


Figure 4. On/Off switch. Position switch in the middle to use the hand-held remote control switch.

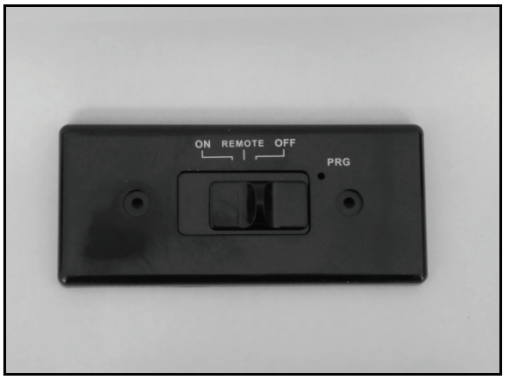


Figure 5. On/Off switch cover

Temperature indication Display

With the system in the "OFF" position, press the Thermostat Key and the Mode Key at the same time. Look at the LCD screen on the transmitter to verify that a C or F is visible to the right of the Room Temperature display. (Fig. 6 & 7)

Figure 6: Display in Fahrenheit

Figure 7: Display in Celsius

Turn on the Fireplace

With the system OFF, press the ON/OFF Key on the remote transmitter. The remote transmitter display will show some other active Icons on the screen. At the same time the Receiver will activate the Heater. A single "beep" from the Receiver (module) will confirm reception of the command.

Turn off the Fireplace

With the system ON, press the ON/OFF Key on the Remote transmitter. The Remote transmitter LCD display will only show the room temperature (Fig. 6 or 7).

At the same time the Receiver (module) will turn off the Heater. A single "beep" from the Receiver confirms reception of the command.

Manual Bypass of the Remote System

If the batteries of the receiver or remote transmitter are low or depleted, the Heater can be turned off manually using ON/OFF switch located on battery box at the rear of the Broadway/Brentwood. This will bypass the remote transmitter.

Key Lock

This function will lock the keys to avoid unsupervised operation. To activate this function, press the MODE and UP keys at the same time. The lock icon will appear (Fig. 8). To de-activate this function, press the MODE and UP keys at the same time.

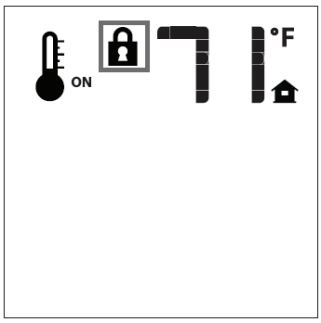


Figure 8

Remote Flame Control

The Proflame has six (6) flame levels. With the system on, and the flame level at the maximum in the appliance, pressing the down arrow key once will reduce the flame height by one step until the flame is turned off.

The Up Arrow Key will increase the flame height each time it is pressed. If the Up Arrow Key is pressed while the system is on but the flame is off, the flame will come on in the high position. (Fig. 9) A single "beep" will confirm reception of the command.

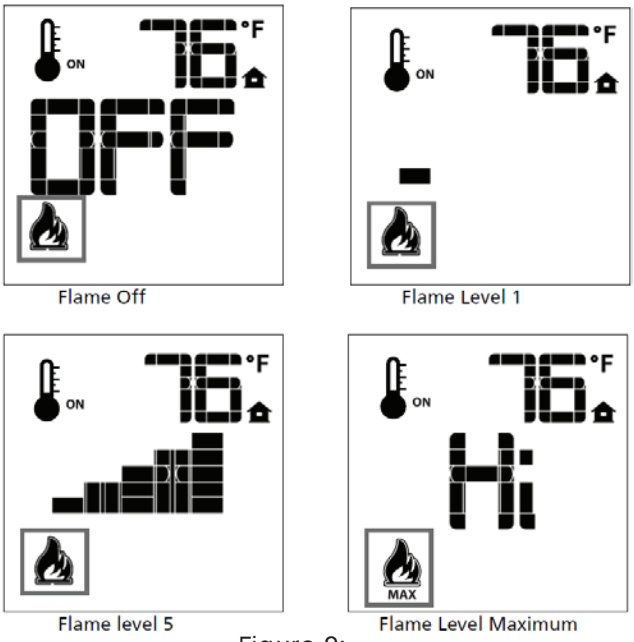


Figure 9:

Room Thermostat (Transmitter Operation)

The Remote Control can operate as a room thermostat. The thermostat can be set to a desired temperature to control the comfort level in a room.

To activate this function, press the Thermostat key (Fig. 1). The LCD display on the transmitter will change to show that the room thermostat is "ON" and the set temperature is now displayed (Fig.10). To adjust the set point, press the up or down arrow keys until the desired set point temperature is displayed on the LCD screen of the transmitter.

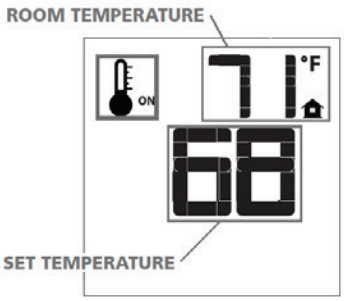


Figure 10

Smart Thermostat (Transmitter Operation)

The Smart Thermostat function adjusts the flame height in accordance to the difference between the set point and the room temperatures. As the room temperature gets closer to the set point, the Smart Function will modulate the flame down. If the room temperature is cool, the Smart Function will modulate the flame up. To activate this function, press the THERMOSTAT key (Fig. 1) until the word "SMART" appears to the right of the temperature icon (Fig.11). To adjust the set point, press the up or down arrow keys until the desired set point temperature is displayed on the LCD screen of the remote transmitter (Fig. 12).

Figure 11: Smart Flam Function

Figure 12

Comfort Fan Speed Control

If the Heater is equipped with a hot air circulating fan, the speed of the fan can be controlled by the Proflame2 System. The fan speed can be adjusted through six (6) speeds. To activate this function use the Mode Key (Fig. 1) to index to the fan control icon (Fig. 13). Use the Up/Down Arrow Keys (Fig. 1) to turn on, off or adjust the fan speed (Fig. 13). A single "beep" will confirm reception of the command.

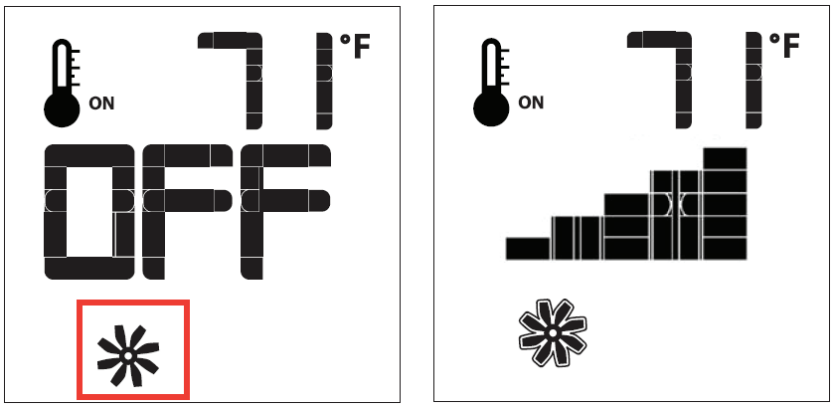


Figure 13: Fan Control

Continuous Pilot/Intermittent Pilot (CPI/IPI) selection

With the system in the "OFF" position, press the Mode Key (Fig. 1) to index to the CPI mode icon (Fig. 14). Pressing the Up Arrow Key will activate the Continuous Pilot Ignition mode (CPI). Pressing the Down Arrow Key will return to IPI. A single "beep" will confirm the reception of the command.

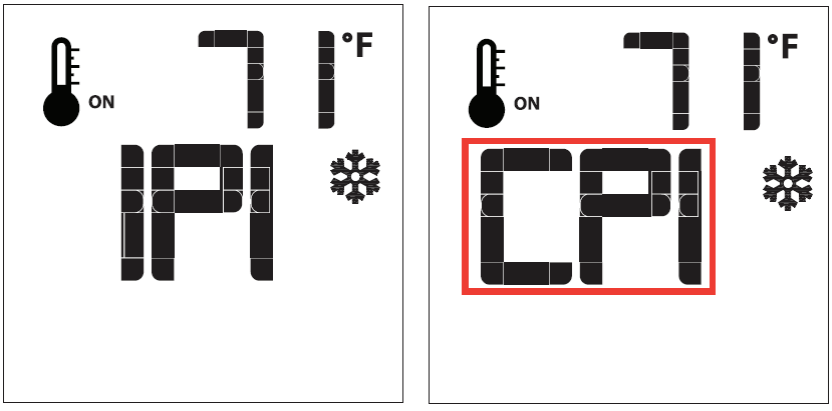


Figure 14: CPI/IPI Selection

Low Battery Power Detection

Transmitter

The life span of the remote control batteries depends on various factors: quality of the batteries used, the number of ignitions of the Heater, the number of changes to the room thermostat set point, etc.

When the remote batteries are low, an icon will appear on the LCD display of the remote (Fig. 15) before all battery power is lost. When the batteries are replaced this icon will disappear.

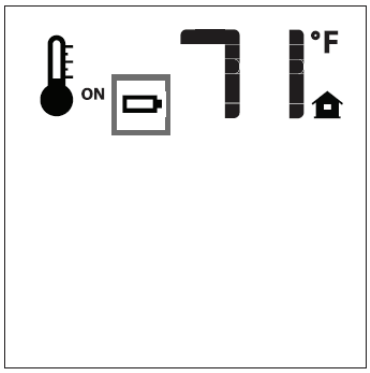


Figure 15

Receiver

The life span of the IFC module batteries depends on various factors: quality of the batteries used, the number of ignitions of the Heater, the number of changes to the room thermostat set point, etc.

When the IFC batteries are low, a "double-beep" will be emitted from the IFC module when it receives a command from the remote. This is an alert for a low battery condition for the IFC board. When the batteries are replaced, a single "beep" will be emitted from the IFC module when a key is pressed (See Initialization of The System on page 8).

Warnings and Cautions

WARNING
Fire Hazard. Can cause severe injury or death
The Receiver causes ignition of the appliance. The appliance can turn on suddenly. Keep away from the appliance burner when operating the remote system or activating manual bypass of the remote system.

WARNING
Shock Hazard. Can cause severe injury or death
This device is powered by line voltage. Do not try to repair this device. In no way is the enclosure to be tampered with or opened. Disconnect from line voltage before performing any maintenance.

Turn off gas and electrical power supply (if applicable) and allow ample time for unit to cool before servicing appliance. It is recommended that the fireplace and its venting should be inspected at least once a year by a qualified service person.

Glass Door:

Warning: Do not operate fireplace with glass door removed, cracked or broken. Replacement of the glass door should be done by a licensed or qualified service person.

Do not strike or otherwise impact the glass in any way that may cause it to break. If the glass becomes cracked or broken it must be replaced before using the fireplace. Replacement door can be obtained from your nearest Pacific Energy dealer. **Do not substitute with any other type.**

To remove broken glass, remove Door as noted in "Door Removal" section.

Annual Inspection:

a) Remove glass door and decorative media (such as logs and rocks). Inspect decorative media and burner assemblies for soot buildup. If excessive buildup of soot is present, have a qualified service person inspect and adjust unit for proper combustion. Clean burners with a brush or vacuum cleaner, paying close attention to burner ports.

b) Check the pilot system for proper flame size and operation. Clean pilot free of soot, dust or any other deposits.

c) Check that the vent pipe and vent terminal are open and free from blockage or debris. If the venting is disassembled for cleaning, it must be properly assembled and re-sealed. Refer to VENTING section for proper procedure.

d) Check glass panel gasket, replace if necessary. It is important that the glass seal be maintained in good condition.

e) Check and replace batteries as needed.

Note: The appliance area must be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.

Periodically:

a) Viewing glass may be cleaned as necessary with fireplace glass cleaner.

b) Exterior finish may be cleaned with mild soap and water.

CAUTION:

Do not use abrasive cleaners on glass or any other part of the fireplace.
Do not clean glass when hot.

Lighting Instructions

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

A. This appliance is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.
B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
WHAT TO DO IF YOU SMELL GAS:
- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbour's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fi re department.
C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance & to replace any part of the control system & any gas control which has been under water.

LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above on this label.
2. This appliance is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.
3. Push the "On/ Off" switch to turn the fireplace ON.
   - If the burner does light go to step 6.
   - If the burner does not light, complete steps 4 through 5.
   - If the burner will not light or stay lit after several tries, push the "On/ Off" switch for the fireplace to OFF, turn off all electric power to the fireplace and call your service technician or gas supplier.
   Note: Sufficient time must be allowed for air to escape from lines if the unit is being lit for the first time.
4. Push the "On/ Off" switch to the fireplace Off.
5. Allow sufficient length of time (minimum 5 minutes) for any gas in the combustion chamber to escape. If you still smell gas, STOP! Follow "B" in the safety information above on this label. If you don't smell gas, go to step 3.
6. Set fireplace to desired setting by using hand held remote.

TO TURN OFF GAS APPLIANCE

1. Push the "on/ off" switch to the "Off" position.
2. Turn off all electric power to the appliance and remove backup batteries if service is to be performed or for extended shutdown.

Due to high surface temperatures, keep children, clothing and furniture away. Keep burner and control compartment clean. See installation and operating instructions accompanying the appliance.
A cause de la temperature elevee des parios, tenir eloignes les enfants, les vetements et les meubles. Maintenir propres le bruleur et le compartiment de commande. Voir les instructions relatives a l'installation et au fonctionnement qui accompagnent l'appareil.

CAUTION: Hot while in operation. Do not touch. Severe burns may result. Keep children, clothing, furniture, gasoline and other liquids having flammable vapours away. Keep burner and control compartment clean. See installation and operating instructions accompanying the appliance.

ATTENTION: L'appareil est chaud lorsqu'il fonctionne. Ne pas toucher l'appareil. Risque de brûlures graves. Serveiller les enfants. Garder les vêtements, le meubles, l'essence ou autres liquides produisant des vapeurs infl ammables loin de l'appareil. S'assurer que le brûleur et le compartiment des commandes sont propres. Voir les instructions d'installation et d'utilisation qui accompagnent l'appareil.

Bristol:

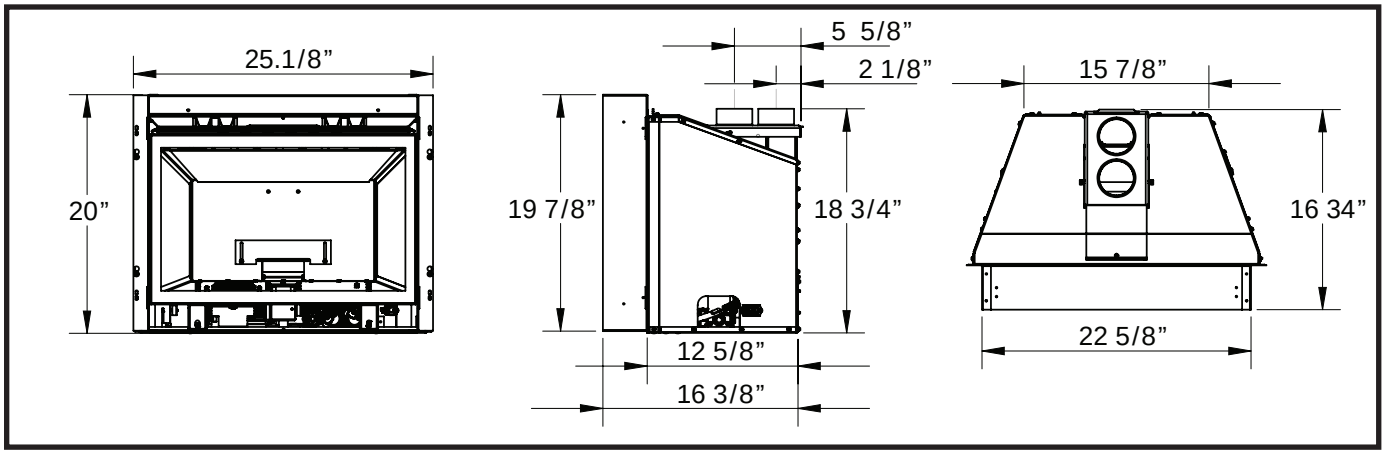


Figure 16: Bristol Dimensions

Bedford:

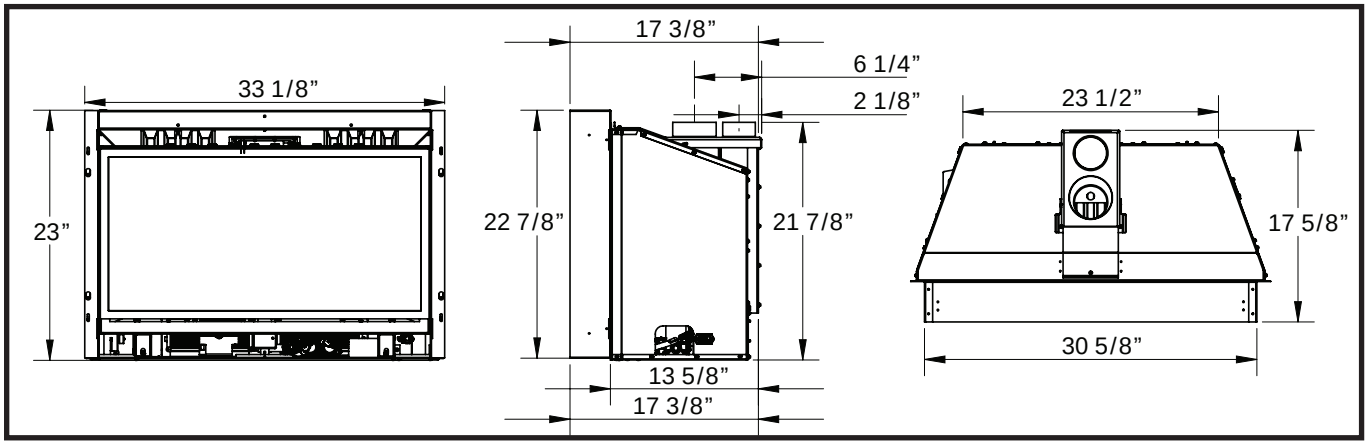


Figure 17: Bedford Dimensions

Existing Fireplace Preparation

The Bristol and Bedford Gas inserts are certified to be installed into pre-existing approved fire place cavities. The minimum cavity requirements are listed in Figure 18 below.

Dimension	Bristol	Bedford
A	16-7/8”	16-7/8”
B	21”	23”
C	26”	34”

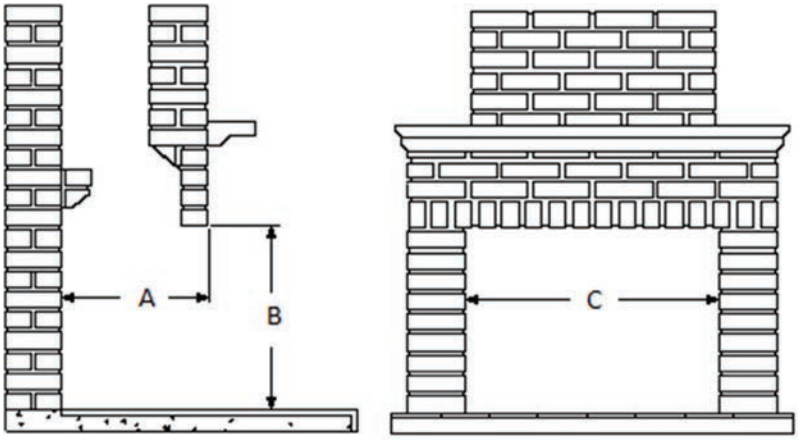


Figure 18: Cavity Dimensions

Before installing the Bristol or Bedford inserts have the chimney swept and fireplace, including ash dumps and clean outs, cleaned to remove any creosote and soot residue that may cause odors and stains after the insert has been installed. The fireplace chimney should be in good working order and made of non-combustible material. Make sure chimney cleanouts fit properly.

When preparing an existing fireplace to install a gas insert, any modifications that will compromise the integrity of the existing fireplace are not allowed. To make way for the insert’s venting the fireplace flue dampener may be blocked open or removed. Refractory, glass doors, screen rails, screen mesh and log grates can be removed from the fireplace before installing the insert. Also, smoke shelves, shields and baffles may be removed if attached by mechanical fasteners. Cutting any sheet metal parts of the fireplace, in which the gas fireplace insert is to be installed, is prohibited.

If the factory-built fireplace has no gas access hole(s) provided, an access hole of 1.5” (37.5mm) or less may be drilled through the lower sides or bottom of the firebox in a proper workmanship like manner. This access hole must be plugged with non-combustible insulation after the gas supply line has been installed.

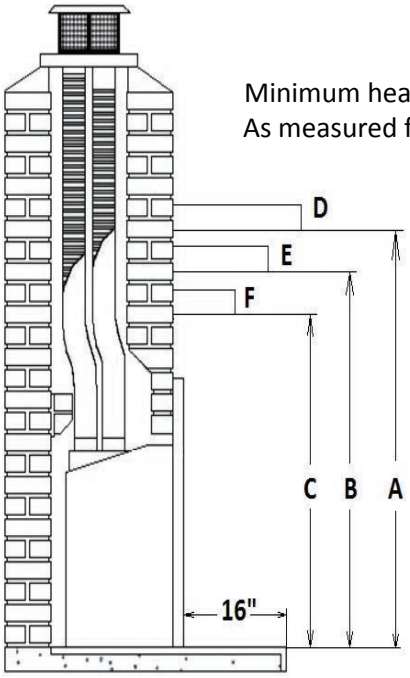


Figure 19: Mantel Clearances

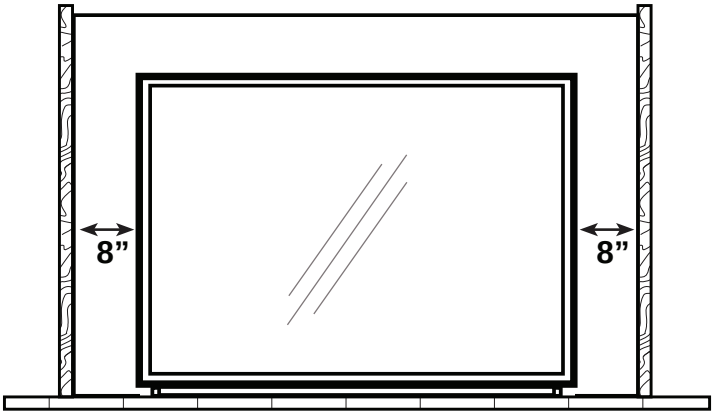


Figure 20: Sidewall Clearance to combustible material

Determine the mantel height from the floor **(A,B & C)** and depth from the wall **(D,E & F)** according to the fireplace model, the fireplace front style and the surround plate style selection.

- Fireplace Fronts located on page 25.
- Fireplace Surrounds and oversize backing plates for larger fireplace openings located on page 26.
- Fronts and Surrounds part numbers located on page 38.

Mantel height and depth table

	Desired fireplace front style	Desired Backing plate surround style	Desired mantel depth	Required mantel clearance from floor
Bristol	Louvered Black or Grey Front	Flat Black or Grey Surround	12"	37"
Bristol	Louvered Black or Grey Front	Flat Black or Grey Surround	9"	36"
Bristol	Louvered Black or Grey Front	Flat Black or Grey Surround	6"	35"
Bristol	Louvered Black or Grey Front	Beveled Black or Grey Surround	12"	33"
Bristol	Louvered Black or Grey Front	Beveled Black or Grey Surround	9"	33"
Bristol	Louvered Black or Grey Front	Beveled Black or Grey Surround	6"	33"
Bristol	Contoured Black or Grey Front	Flat Black or Grey Surround	12"	30"
Bristol	Contoured Black or Grey Front	Flat Black or Grey Surround	9"	29"
Bristol	Contoured Black or Grey Front	Flat Black or Grey Surround	6"	28"
Bristol	Contoured Black or Grey Front	Beveled Black or Grey Surround	12"	30"
Bristol	Contoured Black or Grey Front	Beveled Black or Grey Surround	9"	29"
Bristol	Contoured Black or Grey Front	Beveled Black or Grey Surround	6"	28"
Bedford	Louvered Black or Grey Front	Flat Black or Grey Surround	12"	45"
Bedford	Louvered Black or Grey Front	Flat Black or Grey Surround	9"	44"
Bedford	Louvered Black or Grey Front	Flat Black or Grey Surround	6"	43"
Bedford	Louvered Black or Grey Front	Beveled Black or Grey Surround	12"	45"
Bedford	Louvered Black or Grey Front	Beveled Black or Grey Surround	9"	44"
Bedford	Louvered Black or Grey Front	Beveled Black or Grey Surround	6"	43"
Bedford	Contoured Black or Grey Front	Flat Black or Grey Surround	12"	37"
Bedford	Contoured Black or Grey Front	Flat Black or Grey Surround	9"	36.5"
Bedford	Contoured Black or Grey Front	Flat Black or Grey Surround	6"	36"
Bedford	Contoured Black or Grey Front	Beveled Black or Grey Surround	12"	33"
Bedford	Contoured Black or Grey Front	Beveled Black or Grey Surround	9"	33"
Bedford	Contoured Black or Grey Front	Beveled Black or Grey Surround	6"	33"

Venting

Note: The following Simpson Duravent kits are recommended for use with this appliance.
High-Wind
(Bristol 46DVA-CL33)
(Bedford 46DVA-CL34)
Prairie Co-Linear Kit
(Bristol 46DVA-CL33P)
(Bedford 46DVA-CL34P)

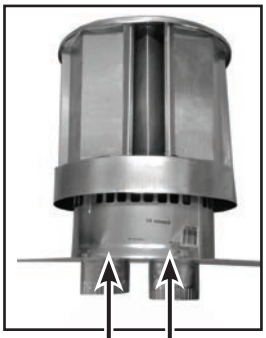


Figure 22: High Wind Vent Terminal

NOTE:

Bedford has a 4 inch dia. exhaust vent and a 3 inch intake vent.

Bristol has both 3 inch dia. exhaust and intake vents.

Only certified venting systems or components may be installed with this fireplace.

1) Measure chimney height, cut flex liner (min.10') as required. Mark one pipe at both ends to identify combustion air intake pipe from flue outlet pipe.
2) Attach marked flex liner pipe to the intake side of vent terminal. Seal and secure with sealant and screws provided. Attach the other pipe to the outl side of vent terminal. Seal and secure with sealai and screws provided.
3) Insert both flex liners from top of the chimney, do through the damper opening.
4) Before attaching vent terminal to top of chimney, apply a bead of caulking to top of clay liner. Slip vent terminal over liner and secure in place with lateral retaining bolts.
5) For larger chimneys, an optional flashing is available which may be cut and fitted to suit. The flashing attaches to the underside of the terminal with four nuts provided. Caulk the flashing in plac to seal any gaps.

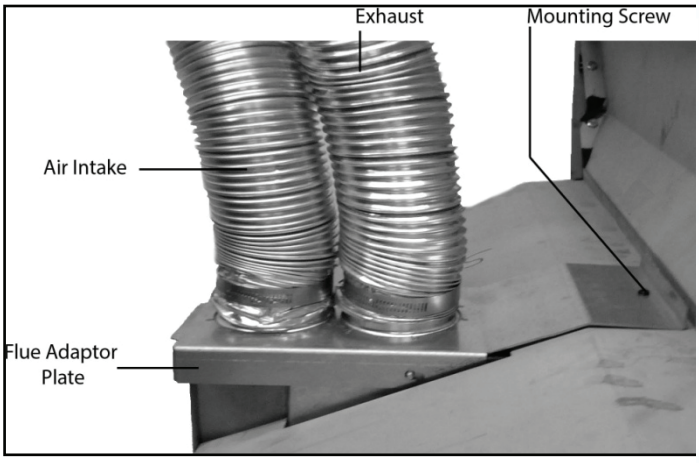


Figure 21: Flue Adaptor Plate Conections

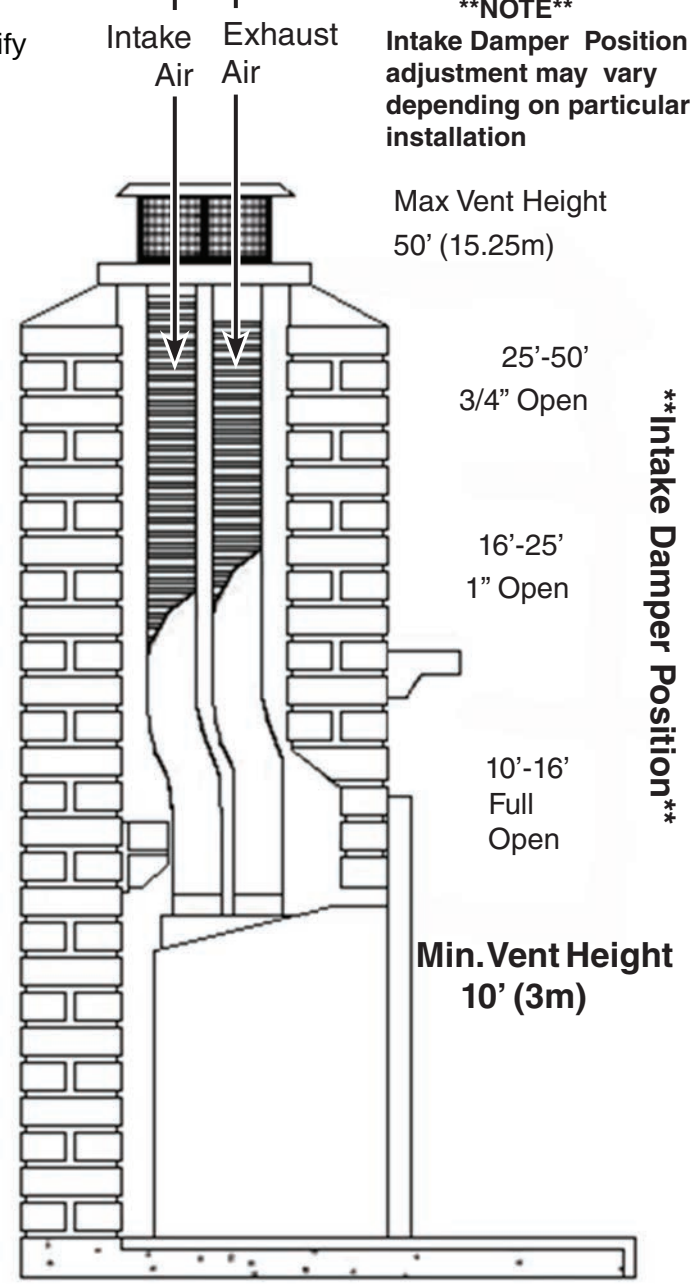


Figure 23: Venting

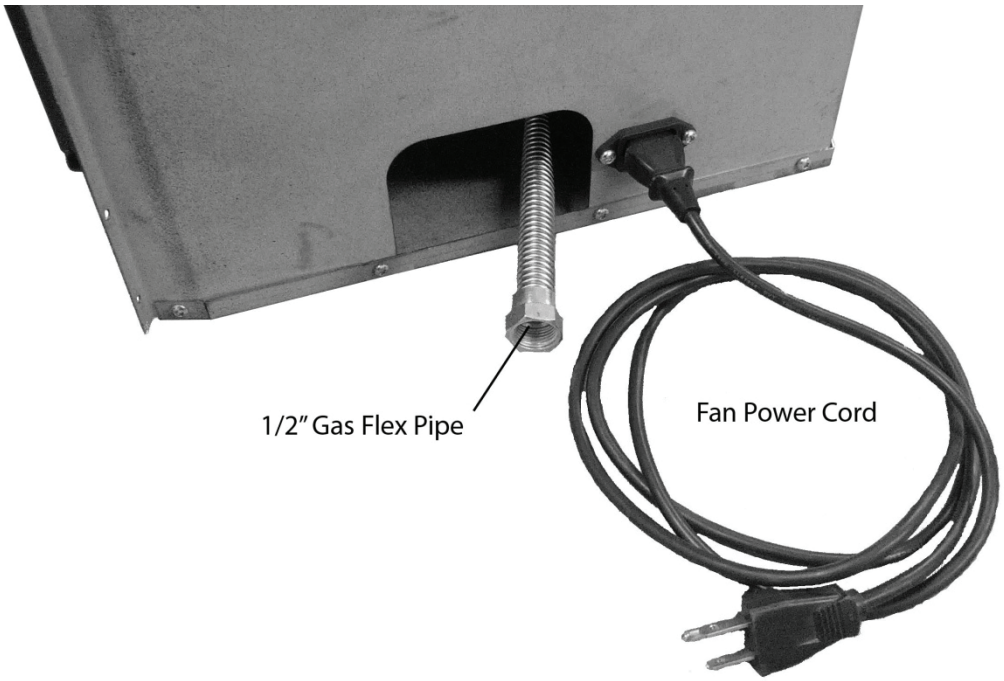


Figure 24: Gas and Electrical Connections

Note: Installation requires that an electrical outlet be installed into existing fireplace cavity before insert is installed.

To make the required electrical and gas connections start by positioning the gas insert within the existing fireplace. Connect the gas supply line to the 1/2" flex tubing that extends out of the unit as seen in Figure 24. Please see the gas supply section of the manual for requirements of the gas supply. Next, plug the power cord into the unit as shown in Figure 24 and plug them into the electrical outlet within the existing fireplace cavity.

NOTE: The appliance, when installed must be electrically grounded in accordance with local codes or, in the absence of local codes, with the National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.1.

Gas Supply

Servicing of the appliance can be performed from the front of the unit by removing the front trim, or by removing the gas tray from the unit.

Caution: The gas line should be installed by a qualified service person in accordance with all building codes. This section is intended as a guide for qualified technicians installing this appliance. Consult local and/or national building codes before proceeding.

- Gas supply line connection is located on the side of the insert. Gas connection accepts a 3/8" N.P.T. fitting. Correct gas line diameter must be used to assure proper operation and pressure.
- The fireplace input rating is shown in the chart below.
- A drip leg must be installed in the gas supply line going to the gas control valve to -minimize the possibility of any loose scale or dirt within the gas supply line from entering the control valve.
- It is essential that a union or flanged connection be installed just upstream of the valve and inside the control compartment to allow for repair or replacement of the gas valve.

Check local codes for additional requirements.

Turn on the gas supply and check that all connections are tight and leak free.

WARNING: The gas tray including gasket must be reinstalled after conversion/installation or servicing has been completed.

Gas Pressure Check / Output / Efficiency

Please refer to following page for gas pressure testing procedure.

Gas pressure requirements

Input Pressure	Natural Gas	Propane
Minimum	5.0" WC	11.0" WC
Maximum	13.9" WC	13.9" WC
Manifold Pressure		
High	3.5" WC	10" WC
Low	1.6" WC	6.4" WC

Bristol

Gas	Orifice	Output	AFUE
NG	1.98mm	18,000 btu/hr	76%
LP	1.25mm	17,000 btu/hr	76%

Bedford

Gas	Orifice	Output	AFUE
NG	2.55mm	30,000 btu/hr	75%
LP	1.50mm	26,000 btu/hr	75%

Gas Pressure Testing Procedure

Note: To test the gas pressure, turn off the gas supply to the appliance before loosening test point screws.

Verify gas pressures with the fireplace lit and at the highest setting.

1. Remove door (Fig. 25) and locate the valve as seen in Figure 26
2. Locate the inlet and outlet test points on the valve which can be seen in Figure 36. After locating the ports loosen the screws within the ports using a flat-tip screwdriver.
3. Attach pressure gauge to the test ports
4. Turn gas supply back on and test pressures.
5. After testing is finished turn off gas supply, remove the pressure gauges and retighten the screws in the test points.

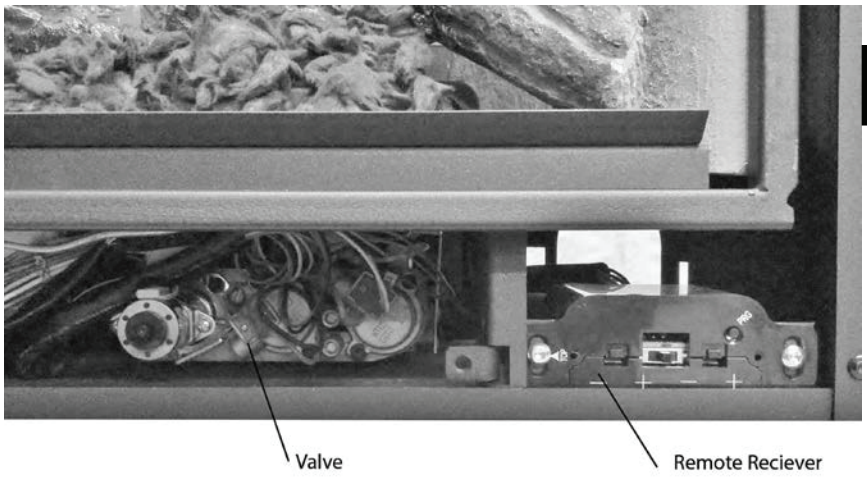


Figure 25: Valve Location

Pilot Adjustment

The pilot flame level can be adjusted by turning the adjustment screw, using a flat-tip screwdriver, seen on the valve in Figure 26.

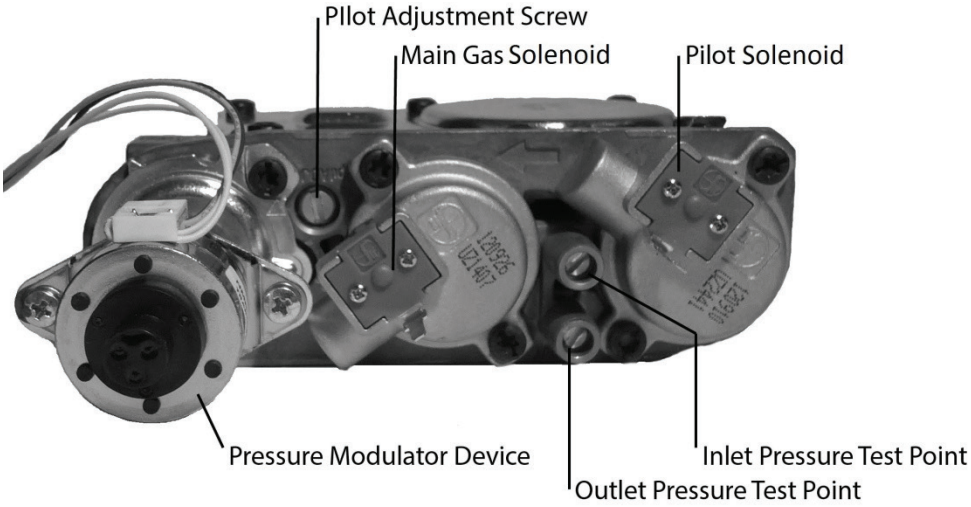


Figure 26: Valve

Propane Conversion

Before starting the conversion make sure to shut off the gas supply to the unit and allow fireplace to cool to room temperature.

To convert the gas fireplace insert from natural gas to propane the (GASC.LPKIT) kit is required. This kit comes with new pilot and burner orifices as well as a new pressure modulator for the valve.

To switch the pressure modulator follow the instructions that are provided with the conversion kit.

To change the orifices, remove the door, media set, and burner. Please refer to the appropriate sections of this manual and follow instructions on how to correctly remove these components.

After removing the burner access, the burner orifice which is located on the bottom of the burner tray, as seen in Figure 27. The orifice can be removed using a ½" socket. Before installing the new orifice Loctite 567 Thread Sealant needs to be applied to the threads of the new orifice to ensure a proper seal when installed.

To replace the pilot orifice, remove the pilot hood which is held in place by a spring. First remove the spring, and then remove the hood by pulling it up from the pilot bracket, seen in Figure 28. To remove the existing orifice insert a 5/32" or 4mm Allen wrench into the hexagonal key-way of the orifice and rotate until free. Insert the new orifice using the same Allen wrench and tighten it until a torque of 9 lbf in (1 Nm) is achieved. Replace the pilot hood by aligning the tab on the base of the hood with the slot in the side of the pilot journal, and push the hood down, onto the pilot bracket. Replace the spring by pushing it into its seat.

Before returning the burner into position, the venturi shutter will have to be adjusted to the correct opening. The correct venturi settings are shown in figure 29. Loosen the screw with a Phillips screwdriver and rotate the shutter until the open slots on both sides are completely open. Tighten the screw, and return the burner into position.

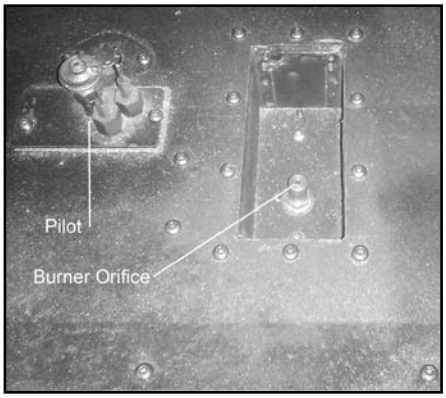


Figure 27: Burner Orifice and Pilot

Pilot orifice sizes
NG - #62
LP - #35

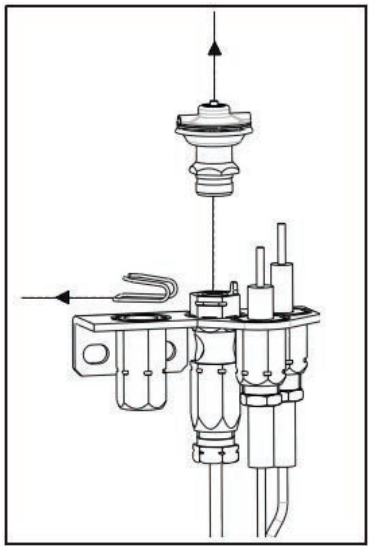


Figure 28: Pilot

VENTURI OPENING		
	Propane	Natural Gas
BRISTOL	OPEN	1/16"
BEDFORD	OPEN	1/16"

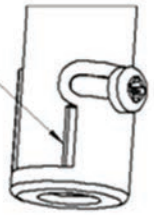


Figure 29: Venturi Opening

Adjustable Leveling Bolts

Adjustable leveling bolts

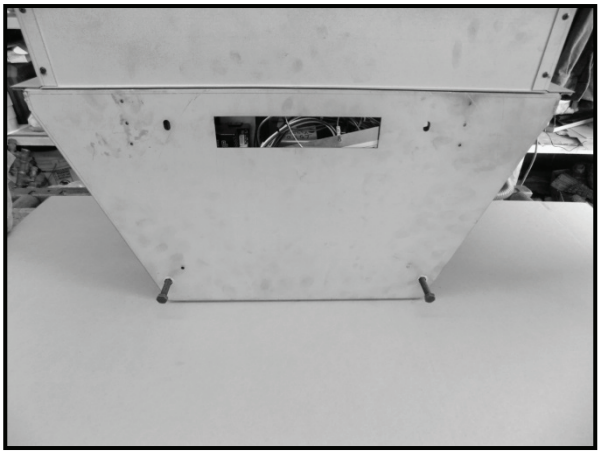


Figure :30 Adjustment feet on the bottom rear of unit.

This fireplace comes with two leveling bolts used to adjust the angle of the front of the fireplace relative to the wall in which it's installed. The bolts are not pre-installed and can be found in a separate plastic bag. Care in measuring should be exercised if using the bolts as the fireplace will be required to be removed each time an adjustment is performed.

Door Installation/Removal

Figure 31: Door

NOTE: In the event that the door glass breaks, The complete door assembly must be replaced. See replacement parts list for the appropriate part number.

Installation

1. Position the door so that the doors upper bracket is positioned overtop of the lip on top of the firebox.
2. Lower the bottom edge of the door and secure it with 1/4" bolts to the relief arms as shown in Figure 31.

Removal

1. Locate and remove the two 1/4" bolts securing the bottom of door as seen in Figure 31.
2. Tilt the bottom of the door away from the appliance and lift the door off.

Surround Installation Instructions

Surround Installation

Figure 32: Door

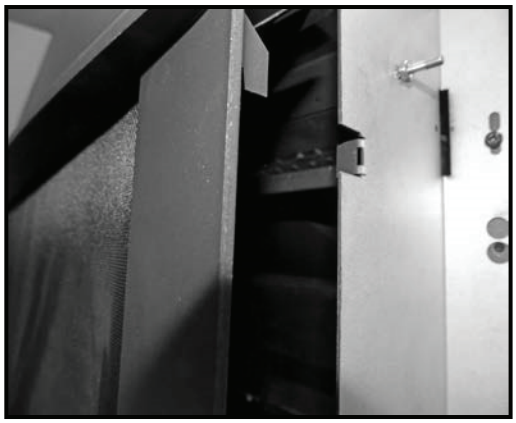


Figure 33: Surround hand lintel tab

The surround cover (Fig.32) attaches to the lintel once the decorative backing plate has been installed. The surround easily fits into place by connecting all four of its hooks to the lintels four tabs (Fig.33).

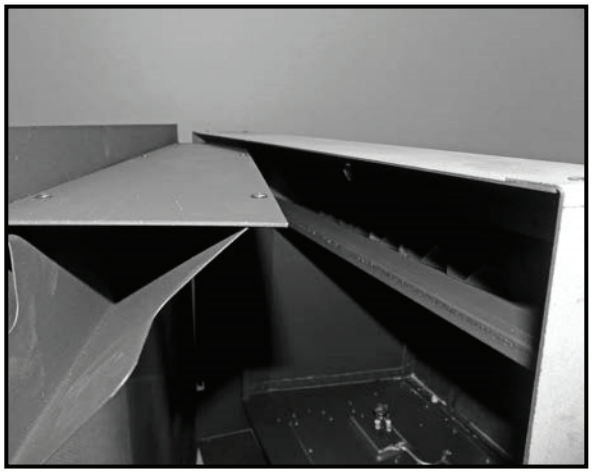


Figure 34: Top of surround fitting inside the baffle during installation

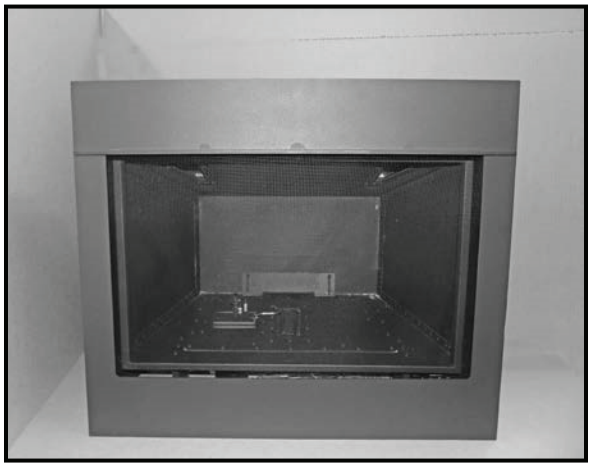


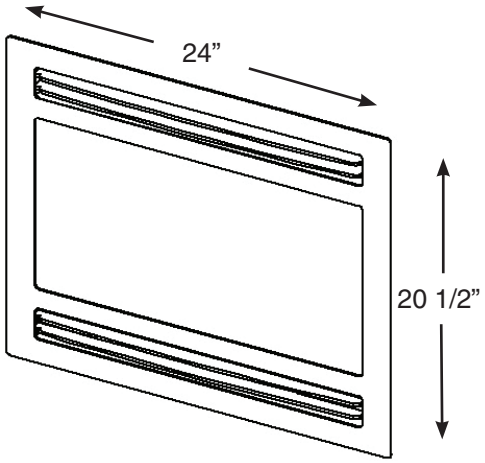
Figure 35: Surround in place (backing not shown)

Installation

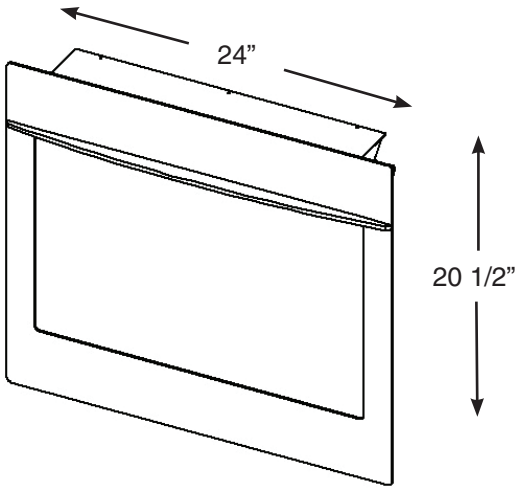
1. Install surround with screen mesh (Fig. 32) after Backing Plate installation is finished.*
2. Surround is secured by four built in hooks (Fig. 33) attaching to four tabs (Fig. 33) built in to the lintel. Insert surround into lintel frame.

* Backing plate is not shown

BRISTOL FRONTS

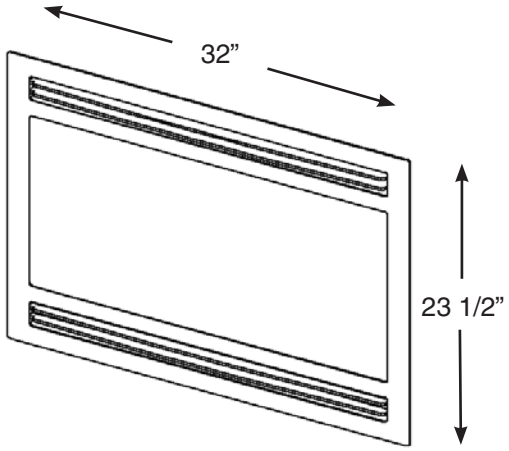


BRCA.18LFBKB - LOUVERED BLACK
BRCA.18LFGYB - LOUVERED GREY

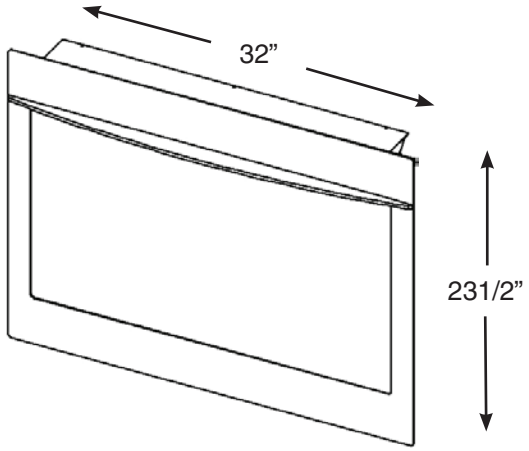


BRCA.18CFBKB - CONTOURED BLACK
BRCA.18CFGYB - CONTOURED GREY

BEDFORD FRONTS



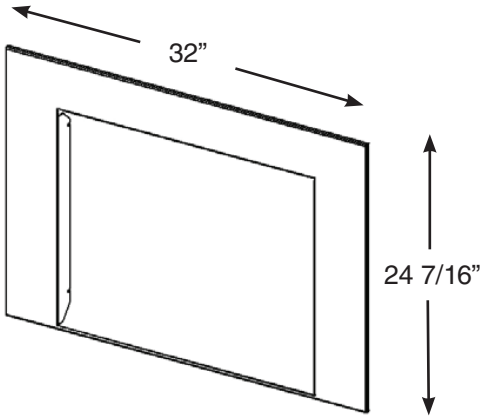
BDCD.30LFBKB - LOUVERED BLACK
BDCD.30LFGYB - LOUVERED GREY



BDCD.30CFBKB - CONTOURED BLACK
BDCD.30CFGYB - CONTOURED GREY

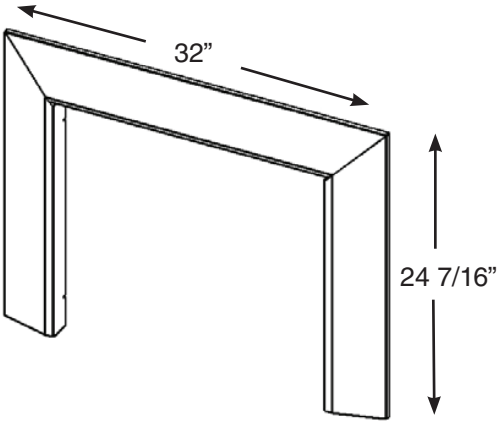
Figure 36: Fronts Sales Codes

BRISTOL SURROUNDS



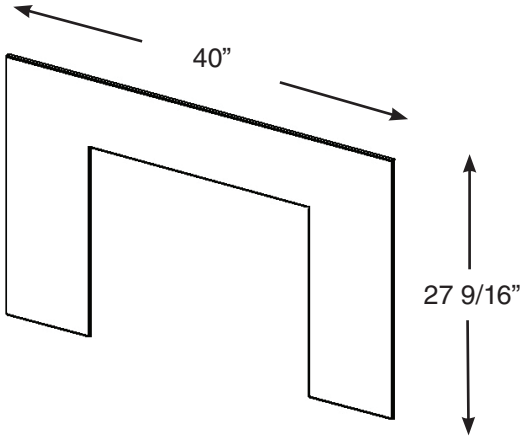
BRSL.18FSBBKA - REGULAR BACKING PLATE - BLACK

BRSL..18FSBGYA - REGULAR BACKING PLATE - GREY



BRSL.18BSBBKA - BEVELED BACKING PLATE - BLACK

BRSL.18SBGYA - BEVELED BACKING PLATE - GREY

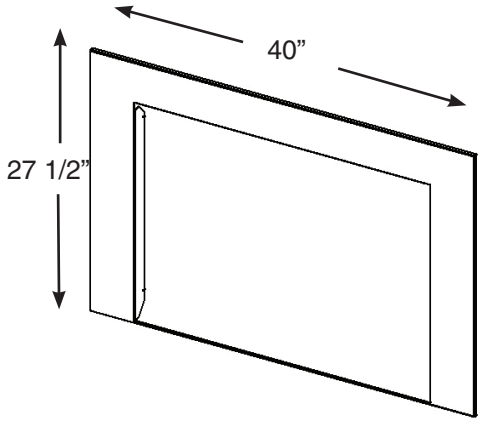


BRSL.18OSFSBBKA - OVERSIZE BACKING PLATE - BLACK

BRSL.18OSFSBGYA - OVERSIZE BACKING PLATE - GREY

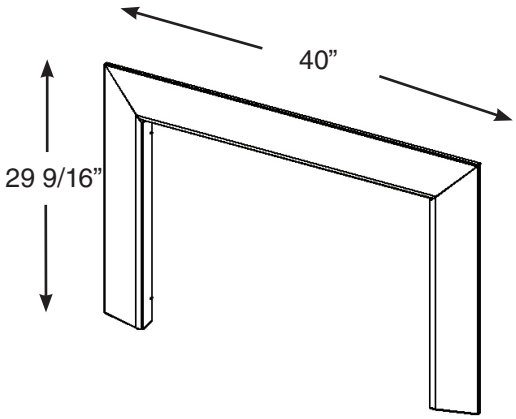
Oversize backing plates are used with regular and beveled surround backing plates to cover larger existing fireplace openings.

BEDFORD SURROUNDS



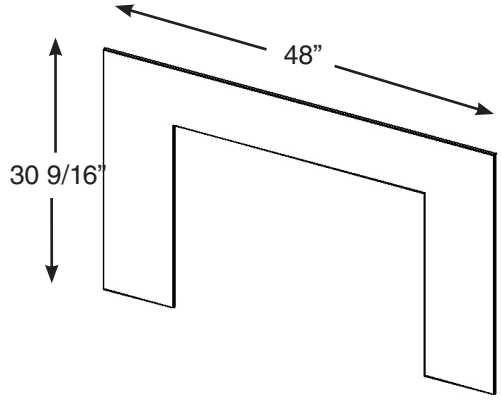
BDFD.30FSBBKA - REGULAR BACKING PLATE - BLACK

BDFD.30FSBGYA - REGULAR BACKING PLATE - GREY



BDFD.30BSBBKA - BEVELED BACKING PLATE - BLACK

BDFD.30BSBGYA - BEVELED BACKING PLATE - GREY



BDFD.30OSFSBBKA - OVERSIZE BACKING PLATE - BLACK

BDFD.30OSFSBGTYA - OVERSIZE BACKING PLATE - GREY

Figure 37: Surround Dimensions

A new battery holder bracket replaces the older one in the series A fireplaces. The older one (Fig. 38) was riveted into place while the new series B bracket (Fig. 39) is screwed into place.

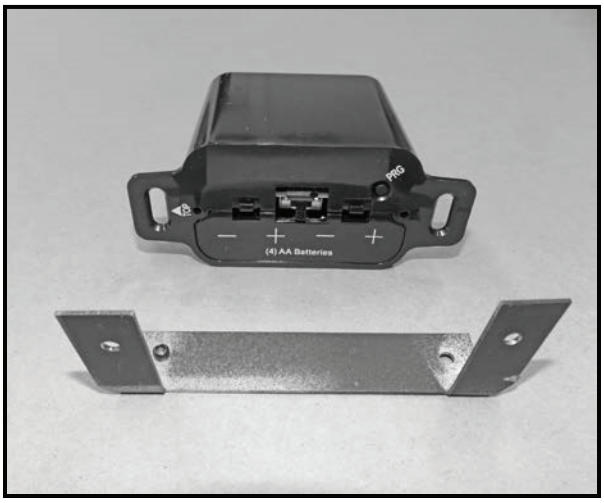


Figure 38: Older riveted bracket.

Figure 39: New bracket.

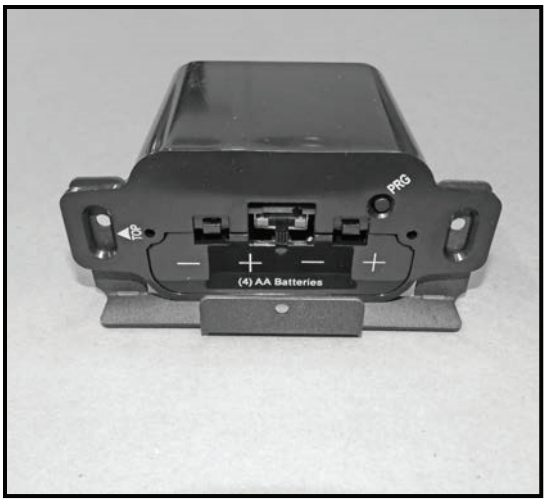


Figure 40: New bracket with battery holder in place.

Fan Removal / Installation

1. Make sure that the gas and electrical supply is shut off. Locate and remove the two 3/8" bolts securing the bottom of door as seen in Figure 41

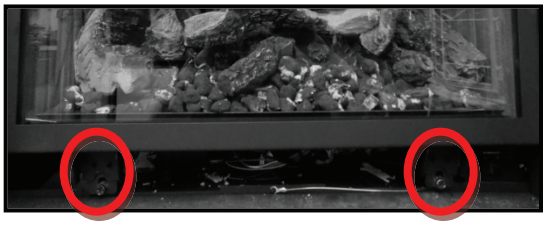


Figure 41

2. Tilt the bottom of the door away from the appliance and lift the door off.

Media Removal

Removal (figures 42 & 43)

1. Remove the loose embers from fireplace.
2. Remove the decorative log pieces from the firebox.
3. Lift and remove the two large ember blocks from the burner.

Figure 42

Figure 43

Removing the Burner and Burner tray.

1. Remove the screw holding the burner to the burner tray (Figure 44).

2. Remove two screws from the upper baffle and remove (Fig. 45)

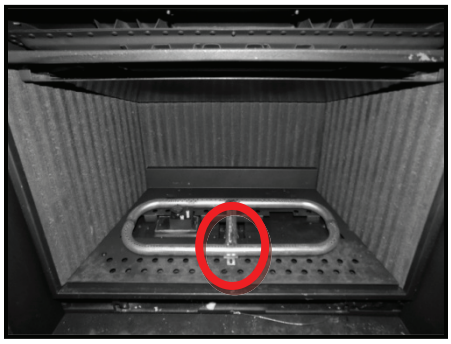


Figure 44

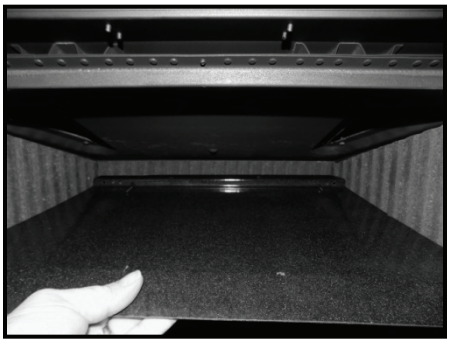


Figure45

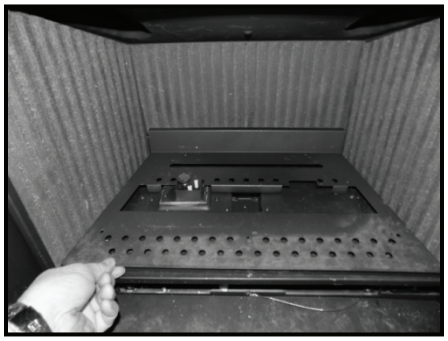


Figure 46

3. Remove two screws from the burner plate (Fig. 46) and remove.

4. Remove the side and rear firebox panels (Fig. 47 & 48)

   Note: The two side firebox panels hold the rear firebox panel in place. Support the rear firebox panel as the side panels are being removed.

Figure 48

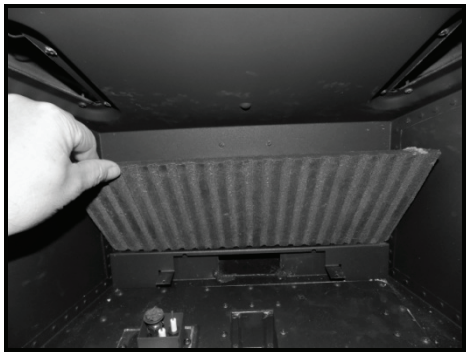


Figure 49

Figure 50

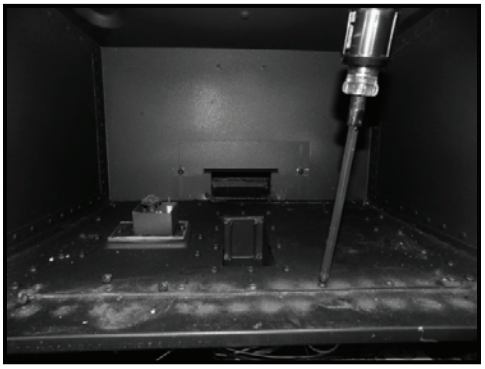


Figure 51

5. Remove two screws which hold the back ledge (Fig.50) in place and remove.

6. Remove the approximately 25 screws hold the base plate (Fig. 51) to the frame of the firebox.

7. Gently remove the base plate (Fig. 52) and set aside to the right hand side of the firebox. There is no need to disconnect any of the electrical or gas fittings.

Figure 52

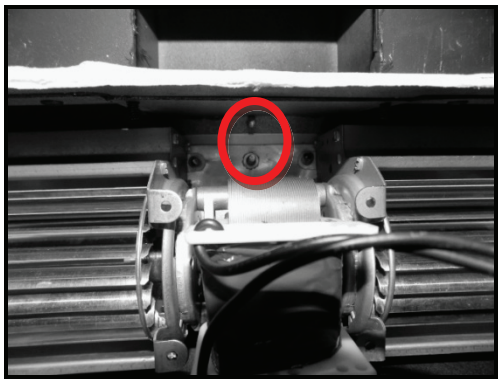


Figure 53

8. The fan is located inside the opening and toward the rear of the firebox. A 3/8” nut holds the fan assembly onto a threaded post. Remove the nut and gently extract the fan assembly from the fire box (Fig. 54) Be careful not to accidentally catch any other wires while the fan is being extracted.

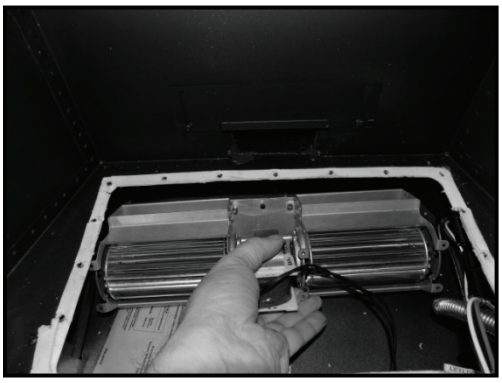


Figure 54

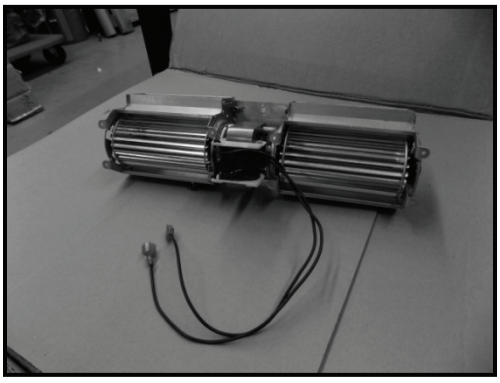


Figure 55

9. Disconnect the two power wires (Fig. 55) before fully extracting the fan from the opening.

10. Installation is reverse of removal. Return the media to its proper place according to by referring to the appropriate section of this manual.

Panel Installation / Removal

NOTE: Air Deflector from burner kit needs to be installed before panels. See Burner Kit Installation.

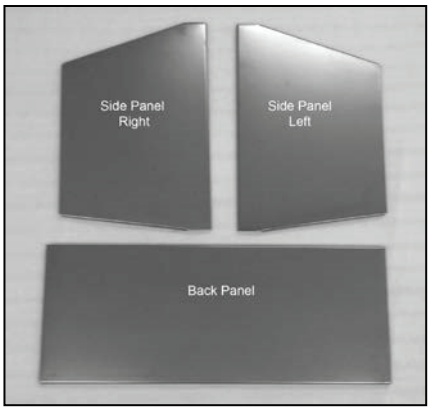


Figure 56: Panel Set

Installation

1. Insert back panel so that it is sitting on ledge at the back of the firebox as shown in Figure 57.
2. Insert first side panel by inserting the front edge of the panel into the lip at the front of the firebox. Then slide the back of the panel until it reaches the firebox side wall. Figure 58.
3. Repeat steps 2 for the second side panel.
4. To hold panels in place, install the baffle, from the burner kit, by resting the back flange on top of the back panel and use two screws to secure the front of the baffle to the top of the firebox, seen in Figure 59.

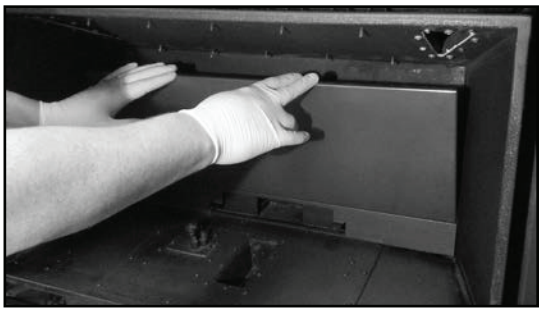


Figure 57: Back Panel

Removal

1. Remove the baffle by removing screws securing the front edge of the baffle seen in Figure 359 After removing the two screws you can slide the baffle out of the fireplace.
2. Remove first side panel by pulling the back edge of panel out away from the firebox wall until there is enough room to remove the front edge of the panel from the lip at front of firebox. When you have enough room, remove panel's front edge from the firebox lip and remove from fireplace.
3. Repeat step 2 to remove second side panel.
4. Remove back panel by tilting the top forward and then pull out of fireplace.

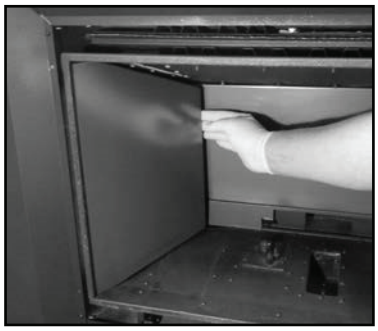


Figure 58: Side Panel

Figure 59: Baffel Mounts

Air Deflector Installation / Removal

Installation
Position the air deflector in the fireplace as seen in Figure 60 and secure with two screws using a screwdriver.

Removal
Remove the two screws seen in Figure 60 using a screwdriver, and remove the air deflector from fireplace.

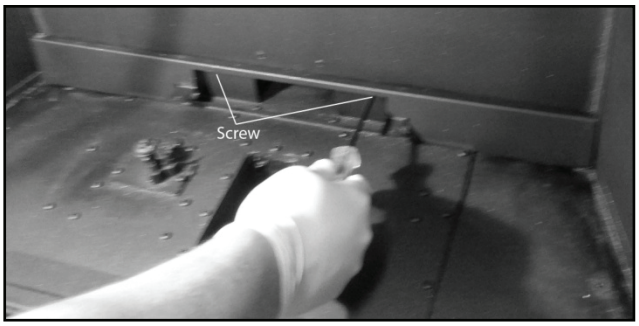


Figure 60: Air Deflector

Burner Tray Installation / Removal

Installation
Place the burner tray in the fireplace and secure with 4 screws using a screwdriver, as seen in Figure 61.

Removal
Remove the 4 screws seen in Figure 61 using a screwdriver, and remove the burner tray.

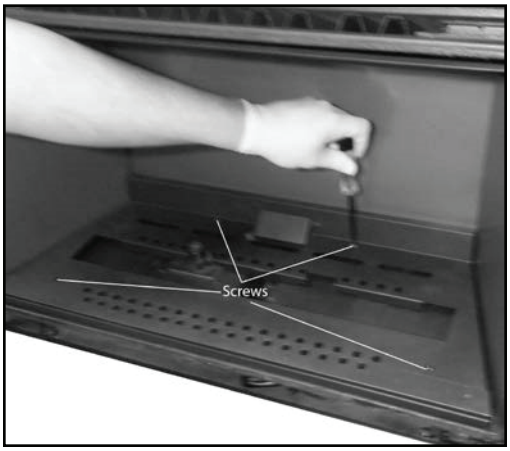


Figure 61:Burner Tray

Burner Installation / Removal

Installation
Place burner in firebox so that the venturi is over top of the orifice. To secure burner insert screw using a screwdriver as seen in Figure 62.

Removal
Remove screw seen in Figure 62 and lift burner out of the unit.

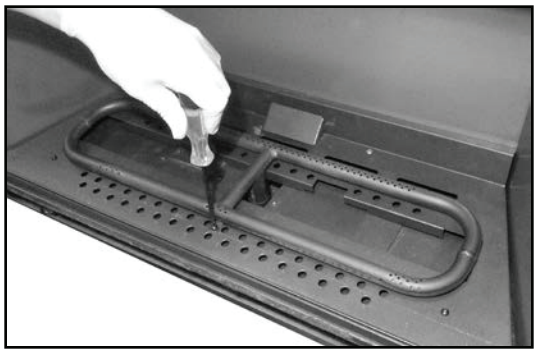


Figure 62:Burner

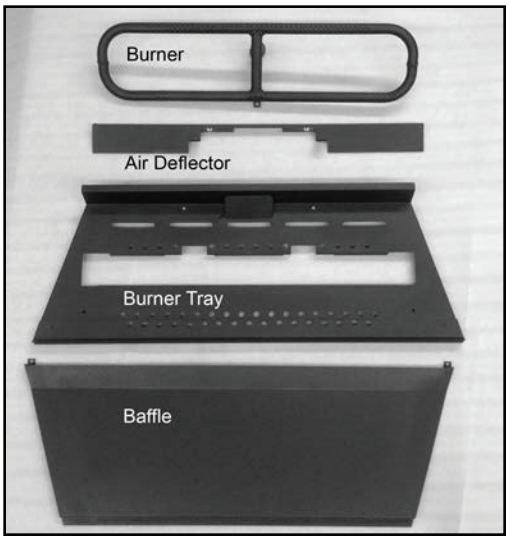


Figure 63:Burner Kit

Log Set Installation / Removal

Installation

1. Position rear log against the back firebox as seen in Figure 65.
2. Position front log just behind the front burner tube as seen in Figure 66.
3. Position log 3 with the thin end of the log resting on top of the right end of the front log as seen in Figure 67.
4. Place ember chunks in front of the front log to hide the burner as seen in Figure 68.

Note: Do Not Block Burner Ports with Embers

Removal

1. Remove embers from fireplace.
2. Lift the decorative log off of the front log and remove it from the firebox.
3. Lift the front log off of the burner and remove it from the firebox.
4. Lift the back log over the pilot and burner and remove from firebox.

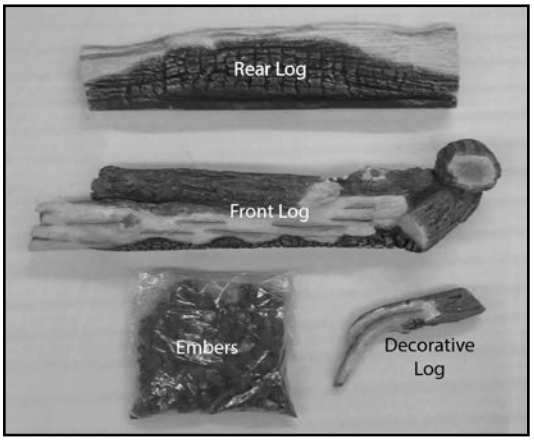


Figure 64: Log Set

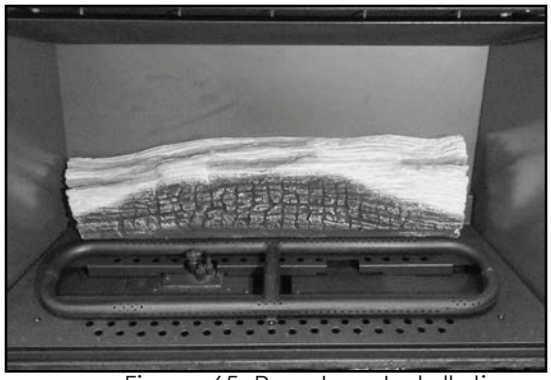


Figure 65: Rear Log Installation

Figure 66: Front Log Installation

Figure 67: Decorative Log Installation

Figure 68: Ember Placement

Figure 69: Complete Log Set

Rustic Log Set Installation / Removal

Installation

1. Position rear logs #1 and #2 against the back fire-box as seen in Figure 71.
2. Position front logs #3 and #4 between the front burner tubes as seen in Figure 72.
3. Position side logs #5; #6 as seen in Figure 73.
4. Position logs #7 and #8 as seen in Figure 774
5. Place logs # 9; 10 and 11 and ember chunks in front of burner to hide the burner as seen in Figure 75.

Note: Do Not Block Burner Ports with Embers

Removal

1. Remove embers from fireplace.
2. Lift the side and decorative log off of the front log and remove it from the firebox.
3. Lift the front logs off of the burner and remove it from the firebox.
4. Lift the rear logs over the pilot and burner and remove from firebox.

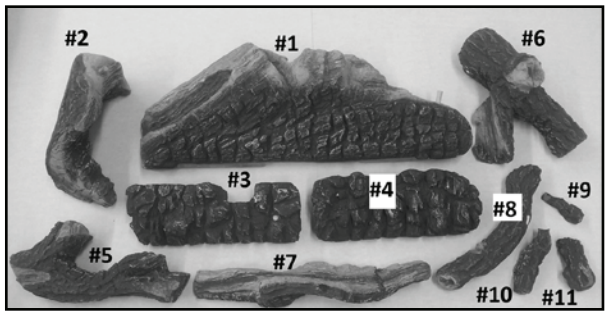


Figure 70: Log Set

Figure 71: Rear Log Installation

Figure 72: Front Log Installation

Figure 73: Side Log Installation

Figure 74: Decorative Log Installation

Figure 75: Complete Log Set

Glass Burner Installation / Removal

Air Deflector Installation / Removal

Installation
Position the air deflector in the fireplace as seen in Figure 77 and secure with two screws using a screwdriver.

Removal
Remove the two screws seen in Figure 77 using a screwdriver, and remove the air deflector from fireplace.

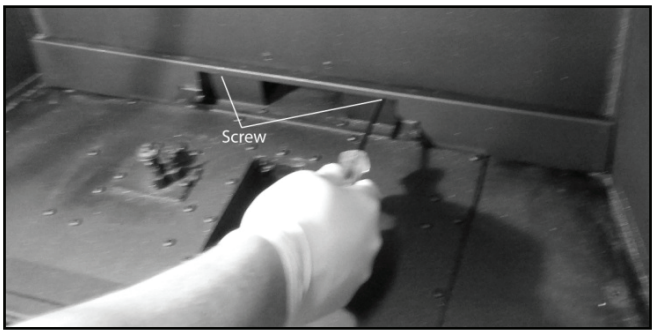


Figure 77: Air Deflector

Burner Tray Installation / Removal

Installation
Place the burner tray in the fireplace and secure with 4 screws using a screwdriver, as seen in Figure 78.

Removal
Remove the 4 screws seen in Figure 78 using a screwdriver, and remove the burner tray.

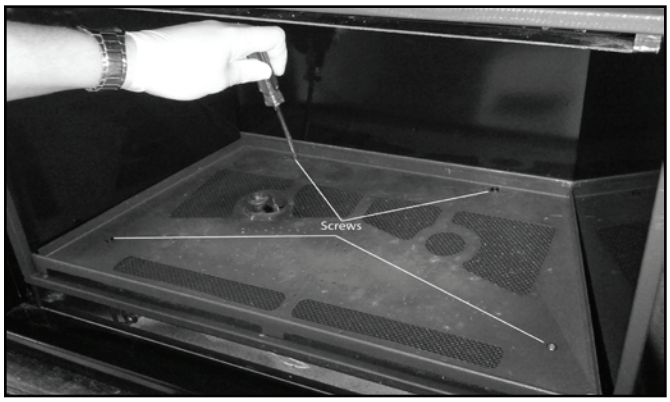


Figure 78:Glass Burner Tray

Glass Installation

To install the glass, evenly spread a thin layer of crushed glass across the entire burner pan as seen in Figure 79 Ensure glass does not cover pilot.

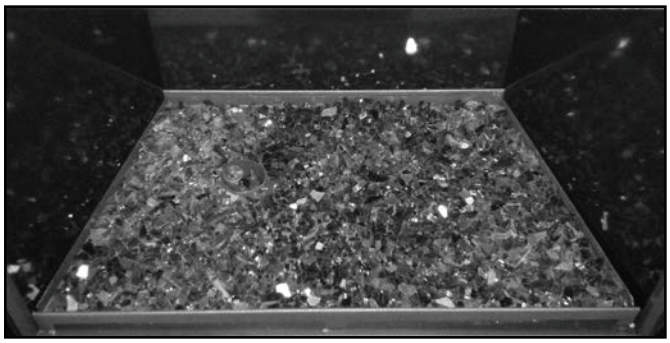


Figure 79: Glass Installation

Rock Installation (Optional)

To install the optional rock set, place rocks making sure no rocks are in the flame when the unit is

Figure 76: Glass Burner Kit

Figure 80: Rocks Installation

Damper/Air Shutter

The Bristol and Bedford fireplaces both come with an adjustable damper that can limit the flow of intake air. This damper is located behind the air deflector at the rear of the inner firebox. Sometimes on installations that involve vertical venting configurations over 10 feet in height, the intake air tends to accelerate down the vent causing hectic flame action. This damper can be closed partially to reduce the speed of the intake air and thus calm the flames to a more natural look. Over-closure of this damper could cause an insufficient air supply to the fire, which would result in flames that cause soot.

To adjust the damper, loosen the two screws that hold the air deflector in place. Slide the damper down to a position that will reduce the air speed entering the appliance, using the bend tab at the bottom edge of the damper. This might take a few adjustments to obtain the best flame appearance. Because removal of the media, burner and burner tray are necessary for damper adjustment, you may put the burner and tray in place without fastening the screws to test the intake airflow. Once the damper is fastened in its adjusted position, return the burner and tray into place and fasten with the appropriate screws. Position the media as instructed in this manual.

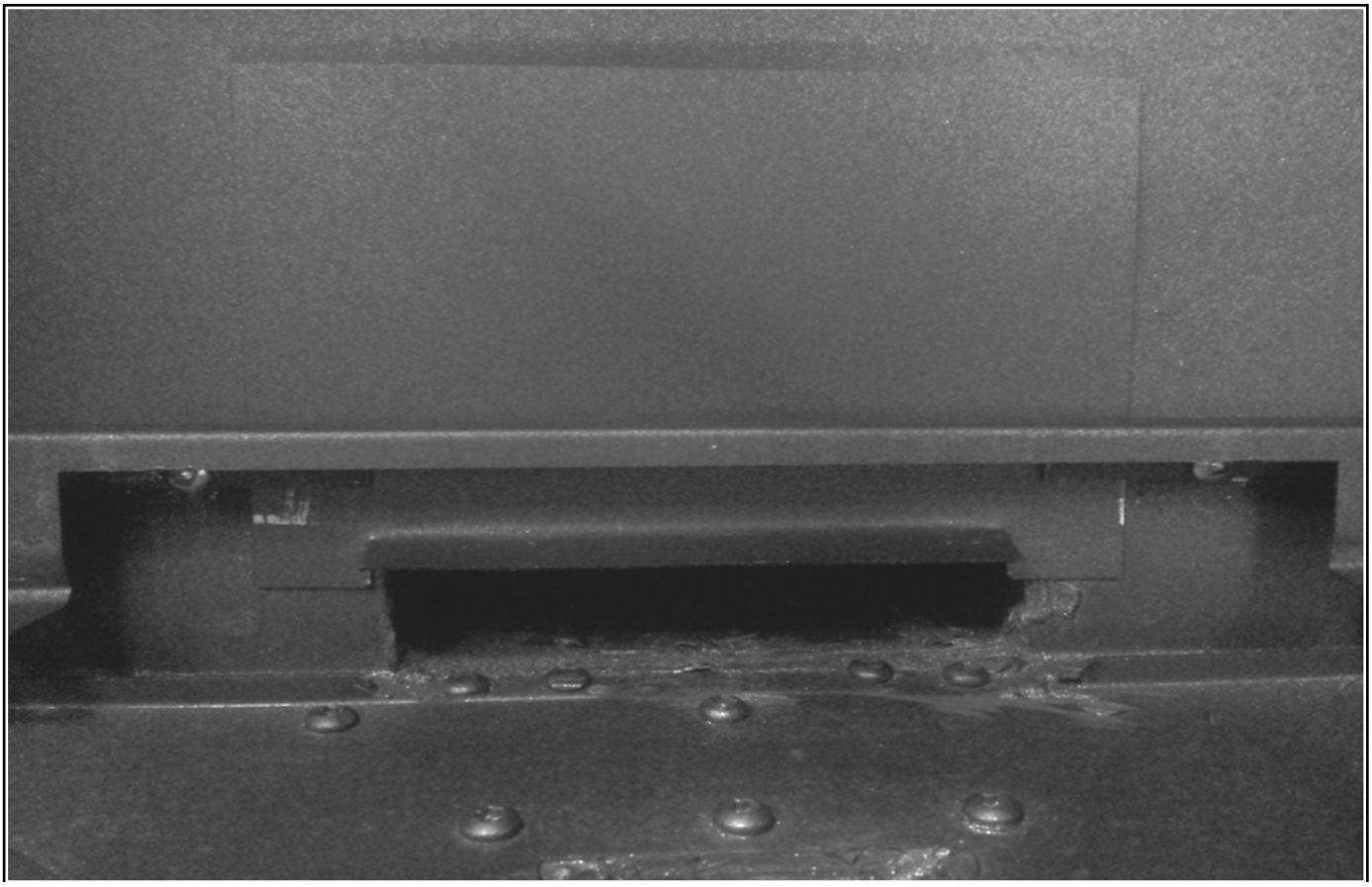


Figure 81: Air Shutter

Replacement Parts

	Description	Order Number
1.	Bristol Regular Screen	5002.710-A (for louvered front)
2.	Bristol Regular Screen	5002.715-A (for contoured front)
3.	Bedford Regular Screen	5002.710-A (for louvered front)
4.	Bedford Regular Screen	5002.715-A (for contoured front)
5.	Complete Replacement Gas Tray	GASC.BRNTRAYA
6.	Replacement Remote Control	GASC.CNTRLA
7.	Bdfd Blower	BRET.BLOWB
8.	Brsl Blower	BDEM.BLOWB

Bristol Aesthetic Components

BRSL.BODYB

Door Kit (required)

BRISTOL FLUSH MOUNT DOOR BRCA.220091-A

Surround Fronts (required)

Louvered Front - Black BRCA.18LFBKB
Louvered Front - Grey..... BRCA.18LFGYB
Contoured Front - Black..... BRCA.18CFBKB
Contoured Front - Grey..... BRCA.18CFGYB

Surround Backing Plates (required)

Regular Backing Plate - Black BRSL.18FSBBKA
Regular Backing Plate - Grey BRSL.18FSBGYA
Oversize Backing Plate - Black BRSL.18OSFSBBKA
Oversize Backing Plate - Grey..... BRSL.18OSFSBGYA
Beveled Backing Plate - Black..... BRSL.18BSBBKA
Beveled Backing Plate - Grey..... BRSL.18BSBGYA

Panel Set (required)

BDWY ESTM PANEL FLUTED BDEM.CPNFLA
BDWY ESTM PANEL RED BRICK..... BDEM.CPNRDA
BDWY ESTM PANEL GRAY BRICK..... BDEM.CPNGYA
BDWY ESTM PANEL LEDGE STONE..... BDEM.CPNLDA
BDWY ESTM PANEL PORC BLACK..... BDEM.PPNBKA
BDWY ESTM PANEL PORC RED..... BDEM.PPNRDA
BDWY ESTM PANEL PORC Titanium..... BDEM.PPNTIA
BDWY ESTM PANEL PORC Coffee Bean.... BDEM.PPNCBA
BDWY ESTM PANEL PORC Copper..... BDEM.PPNCUA

Burner Set (required)

BDWY ESTM DESIGNER LOG BDEM.NG01B
RUSTIC LOG BNR BDEM.NG05B
BDWY ESTM GLASS BURNER..... BDEM.NG03B

Optional Components

Metro Rock Set Black ..... GASC.METROBKA
Metro Rock Set Grey ..... GASC.METROGYA
Tranquility Rock Set ..... GASC.TRANQA
Propane Conversion Kit GASC.LP18KIT

Bedford Aesthetic Components

BDFD.BODYB

Door Kit (required)

BEDFORD FLUSH MOUNT DOOR BDCD.267507-A

Surround Fronts (required)

Louvered Front - Black BDCD.30LFBKB
Louvered Front - Grey..... BDCD.30LFGYB
Contoured Front - Black..... BDCD.30CFBKB
Contoured Front - Grey..... BDCD.30CFGYB

Surround Backing Plates (required)

Regular Backing Plate - Black BDFD.30FSBBKA
Regular Backing Plate - Grey BDFD.30FSBGYA
Oversize Backing Plate - Black BDFD.30OSFSBBKA
Oversize Backing Plate - Grey..... BDFD.30OSFSBGYA
Beveled Backing Plate - Black BDFD.30BSBBKA
Beveled Backing Plate - Grey..... BDFD.30BSBGYA

Panel Set (required)

BRNT ESTT PANEL FLUTED..... BRET.CPNFLA
BRNT ESTT PANEL RED BRICK..... BRET.CPNRDA
BRNT ESTT PANEL GRAY BRICK..... BRET.CPNGYA
BRNT ESTT PANEL LEDGE STONE ..... BRET.CPNLDA
BRNT ESTT PANEL PORC BLACK..... BRET.PPNBKA
BRNT ESTT PANEL PORC RED..... BRET.PPNRDA
BRNT ESTT PANEL PORC Titanium..... BRET.PPNTIA
BRNT ESTT PANEL PORC Coffee Bean.. BRET.PPNCBA
BRNT ESTT PANEL PORC Copper..... BRET.PPNCUA

Burner Set (required)

BRNT ESTT DESIGNER LOG BNR..... BRET.NG01B
RUSTIC LOG BNR BRET.NG05B
BRNT ESTT GLASS BURNER BRET.NG03B

Optional Components

Metro Rock Set Black ..... GASC.METROBKA
Metro Rock Set Grey ..... GASC.METROGYA
Tranquility Rock Set ..... GASC.TRANQA
Propane Conversion Kit GASC.LP30KIT

Caution: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.

Verify proper operation after servicing.

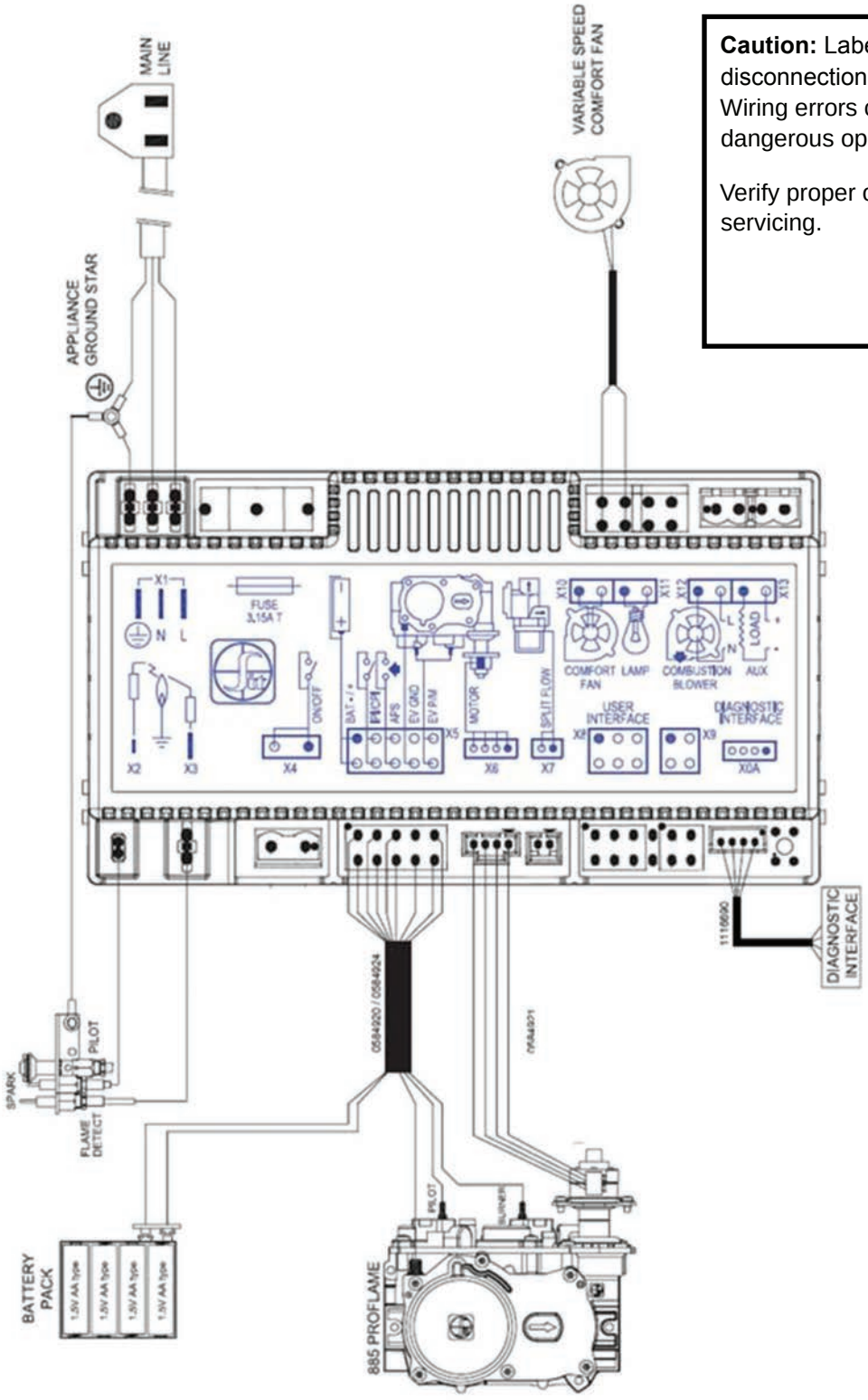


Figure 82: Wiring diagrams

Bristol Rating Label

VENTED GAS FIREPLACE - NOT FOR USE WITH SOLID FUEL///FOYER AU GAZ À ÉVACUATION - NE PAS UTILISER AVEC DU COMBUSTIBLE SOLIDE

LC- 211

ANSI Z21.88-2014 / CSA 2.33-2014 Vented Gas Fireplace Heaters
CAN/CGA 2.17-M91 Gas-Fired Appliance For Use At High Altitudes.

Certified for / Certifié pour Canada and U.S.A.

This Appliance is Equipped For Use With / Cet Appareil est Équipé Pour Utilise Avec :

NATURAL GAS / GAZ NATUREL ■ **LP-GAS / LP GAZ** ■

FOR USE WITH/ EN CASE D'EMPLOI AVEC:	NATURAL GAS/ DU GAZ NATUREL	LP GAS/ DU GAZ LP
Minimum supply pressure / Pression minimum d'alimentation: (For the purpose of input adjustment / dans le but de régler l'alimenation) Maximum supply pressure / Pression maximum d'alimentation: Manifold pressure / Pression de la tuyauterie: Maximum	5.0 in/wc / 5.0 po/c.e. (1.25 kPa) 13.9 in/wc / 13.9 po/c.e. (3.45 kPa) 3.5 in/wc / 3.5 po/c.e. (.87 kPa)	12.5 in/wc / 12.5 po/c.e. (3.11 kPa) 13.9 in/wc / 13.9 po/c.e. (3.45 kPa) 10.0 in/wc / 11.0 po/c.e. (2.74 kPa)
Orifice Size / Diametre de l'injectuer:	1.98mm	1.25mm
Input BTU/hr (kW) / Entree BTU/h (kW):	Max.:18,000Btu (5.3kw) Min.: 12,300Btu (3.6kw)	Max.:17,000Btu (5.0kw) Min.:13,500Btu (4.0kw)

MODEL/ MODELE:BRISTOL

SERIES/ SERIE: B

MADE IN CANADA
FABRIQUE AU CANADA

Unit electrical rating: 115v, 60hz, 0.52A / Normes electriques du unité: 115v, 60hz, 0.52 A
This appliance equipped for altitudes 0 - 4500 ft. (0 - 1372 m) / Cet unité est conçu pour des altitudes variant entre 0 - 4500 pieds (0 - 1372 m). In Canada, also certified for installation in a bedroom or a bedsitting room / Aussi certifié pour installation dans une chambre à coucher ou une salle de séjour. This appliance must be installed in accordance with local codes, if any; if none, follow the current CAN/CGA-B149 (Canada), or ANSI Z223.1 (USA) Installation Codes. Installer l'appareil selon les codes ou règlements locaux, ou, en l'absence de tels règlements, selon les codes d'installation CAN/CGA-B149 (Canada), or ANSI Z223.1 (USA) en vigeur.

MANUFACTURED (MOBILE) HOME: This appliance is only for use with the type of gas indicated on the rating plate and may be installed in an aftermarket, permanently located, manufactured (mobile) home where not prohibited by local codes. See owners manual for details.
FABRIQUEZ (MOBILE) MAISON: Cet appareil doit être utilisé uniquement avec le type de gaz indiqué sur la plaque signalétique et peut être installé dans une maison préfabriquée (mobile) installée à demeure si les règlements locaux le permettent. Voir la notice du propriétaire pour plus de détails. Cet appareil ne peut être converti à d'autres gaz sauf si une trousse de conversion certifiée est utilisée.
Install in accordance with the current standard Mobile Homes,CAN/CSA Z240 MH (in CANADA), and the Manufacturer's Home Construction and Safety Standard, Title 24 CFR, Part 3280, or the current Standard for Fire Safety Criteria for Manufactured Home Installations, Sites, and Communities ANSI/NFPA 501A, (in the U.S.A.). Cet appareil diot être installé conformemént aux exigences de la norme CAN/CSA Z240 MH en vigueur de l'ACNOR, Installations de gaz dans les Constructions Mobiles.
FOR USE WITH GLASS DOORS CERTIFIED WITH THE APPLIANCE ONLY / POUR UTILISATION UNIQUEMENT AVEC LES PORTES IN VERRE CERTIFIÉES AVEC L'APPAREIL

MINIMUM CLEARANCES TO COMBUSTIBLES / CLAIRANCES MINIMALES AVEC LES COMBUSTIBLE Left and Right side are determined when facing the front of the appliance. / Les côtés droit et gauche se déterminent en se mettant devant l'appareil et en lui faisant face.	
For installation in a masonary fireplace only / Pour une installation dans un foyer maçonnerie seulement	0 in. (0 mm)
Sidewall to Appliance / Du mur latéral a l'appareil	8 in. (203 mm)
Mantel to Appliance / Du manteau al'appareil	* SEE USER MANUAL
Maximum Mantel Extension / Allongement maximum du manteau *See Installation Manual for more detail / Voyez des Directive de l'Installation pour plus détaux.	*12 in (305 mm)

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance. For assistance or additional information, consult a qualified installer, service agency or the gas supplier.
AVERTISSEMENT: Une installation, un réglage, une modification, une réparation ou un entretien mal effectué peut causer des dommages matériels ou des blessures. Voir la notice de l'utilisateur qui accompgne l'appareil. Pour de l'aide ou des renseignements supplémentaires, consultez un installateur, un technicien agréé ou le fournisseur de gaz.

Pacific Energy
Fireplace Products Ltd.
Duncan, British Columbia,
Canada

120515 **5050.632-B** **BRSL.BODYB**

Bedford Rating Label

VENTED GAS FIREPLACE - NOT FOR USE WITH SOLID FUEL///FOYER AU GAZ À ÉVACUATION - NE PAS UTILISER AVEC DU COMBUSTIBLE SOLIDE

LC- 210

ANSI Z21.88-2014 / CSA 2.33-2014 Vented Gas Fireplace Heaters
CAN/CGA 2.17-M91 Gas-Fired Appliance For Use At High Altitudes.

Certified for / Certifié pour Canada and U.S.A.

This Appliance is Equipped For Use With / Cet Appareil est Équipé Pour Utilise Avec :

NATURAL GAS / GAZ NATUREL ■ **LP-GAS / LP GAZ** ■

FOR USE WITH/ EN CASE D'EMPLOI AVEC:	NATURAL GAS/ DU GAZ NATUREL	LP GAS/ DU GAZ LP
Minimum supply pressure / Pression minimum d'alimentation: (For the purpose of input adjustment / dans le but de régler l'alimenation)	5.0 in/wc / 5.0 po/c.e. (1.25 kPa)	12.5 in/wc / 12.5 po/c.e. (3.11 kPa)
Maximum supply pressure / Pression maximum d'alimentation:	13.9 in/wc / 13.9 po/c.e. (3.45 kPa)	13.9 in/wc / 13.9 po/c.e. (3.45 kPa)
Manifold pressure / Pression de la tuyauterie: Maximum	3.5 in/wc / 3.5 po/c.e. (.87 kPa)	10.0 in/wc / 11.0 po/c.e. (2.74 kPa)
Orifice Size / Diametre de l'injectuer:	2.55mm	1.52mm
Input BTU/hr (kW) / Entree BTU/h (kW):	Max.:30,000Btu (8.8kw) Min.: 22,000Btu (6.5kw)	Max.:26,000Btu (7.9kw) Min.: 20,000Btu (5.9kw)

MODEL/ MODELE:
BEDFORD

SERIES/ SERIE: **B**

MADE IN CANADA
FABRIQUE AU CANADA

Unit electrical rating: 115v, 60hz, 0.52A / Normes electriques du unité: 115v, 60hz, 0.52 A
This appliance equipped for altitudes 0 - 4500 ft. (0 - 1372 m) / Cet unité est conçu pour des altitudes variant entre 0 - 4500 pieds (0 - 1372 m). In Canada, also certified for installation in a bedroom or a bedsitting room / Aussi certifié pour installation dans une chambre à coucher ou une salle de séjour. This appliance must be installed in accordance with local codes, if any; if none, follow the current CAN/CGA-B149 (Canada), or ANSI Z223.1 (USA) Installation Codes. Installer l'appareil selon les codes ou règlements locaux, ou, en l'absence de tels règlements, selon les codes d'installation CAN/CGA-B149 (Canada), or ANSI Z223.1 (USA) en vigeur.

MANUFACTURED (MOBILE) HOME: This appliance is only for use with the type of gas indicated on the rating plate and may be installed in an aftermarket, permanently located, manufactured (mobile) home where not prohibited by local codes. See owners manual for details.
FABRIQUEZ (MOBILE) MAISON: Cet appareil doit être utilisé uniquement avec le type de gaz indiqué sur la plaque signalétique et peut être installé dans une maison préfabriquée (mobile) installée à demeure si les règlements locaux le permettent. Voir la notice du propriétaire pour plus de détails. Cet appareil ne peut être converti à d'autres gaz sauf si une trousse de conversion certifiée est utilisée.
Install in accordance with the current standard Mobile Homes,CAN/CSA Z240 MH (in CANADA), and the Manufacturer's Home Construction and Safety Standard, Title 24 CFR, Part 3280, or the current Standard for Fire Safety Criteria for Manufactured Home Installations, Sites, and Communities ANSI/NFPA 501A, (in the U.S.A.). Cet appareil diot être installé conformemént aux exigences de la norme CAN/CSA Z240 MH en vigueur de l'ACNOR, Installations de gaz dans les Constructions Mobiles.
FOR USE WITH GLASS DOORS CERTIFIED WITH THE APPLIANCE ONLY / POUR UTILISATION UNIQUEMENT AVEC LES PORTES IN VERRE CERTIFIÉES AVEC L'APPAREIL

MINIMUM CLEARANCES TO COMBUSTIBLES / CLAIRANCES MINIMALES AVEC LES COMBUSTIBLE
Left and Right side are determined when facing the front of the appliance. / Les côtés droit et gauche se déterminent en se mettant devant l'appareil et en lui faisant face.

For installation in a masonary fireplace only / Pour une installation dans un foyer maçonnerie seulement	0 in. (0 mm)
Sidewall to Appliance / Du mur latéral a l'appareil	8 in. (203 mm)
Mantel to Appliance / Du manteau al'appareil	* SEE USER MANUAL
Maximum Mantel Extension / Allongement maximum du manteau	*12 in. (305 mm)
*See Installation Manual for more detail / Voyez des Directive de l'Installation pour plus détaux.	

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance. For assistance or additional information, consult a qualified installer, service agency or the gas supplier.
AVERTISSEMENT: Une installation, un réglage, une modification, une réparation ou un entretien mal effectué peut causer des dommages matériels ou des blessures. Voir la notice de l'utilisateur qui accompgne l'appareil. Pour de l'aide ou des renseignements supplémentaires, consultez un installateur, un technicien agréé ou le fournisseur de gaz.

Pacific Energy
Fireplace Products Ltd.
Duncan, British Columbia,
Canada

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For technical support, please contact your retailer

Web site: www. pacificenergy.net
2975 Allenby Rd., Duncan, BC V9l 6V8